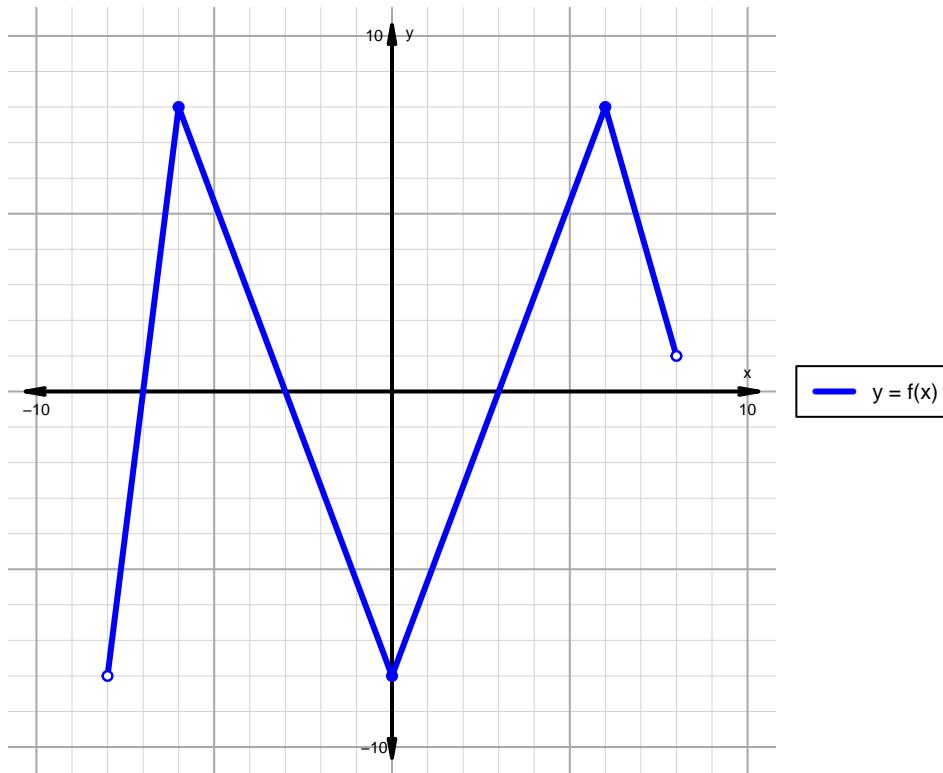


Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 1)

1. The function f is graphed below.



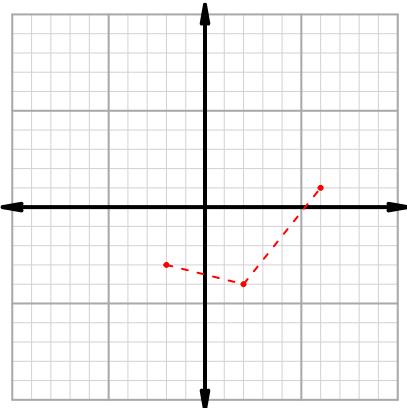
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

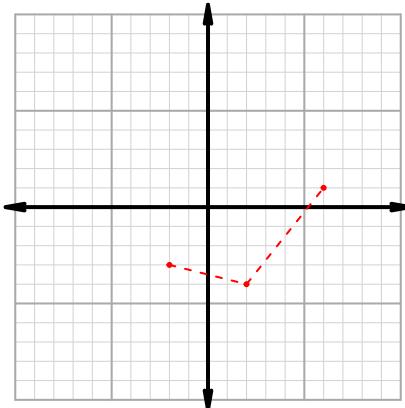
Intervals, Transformations, and Slope Practice (version 1)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

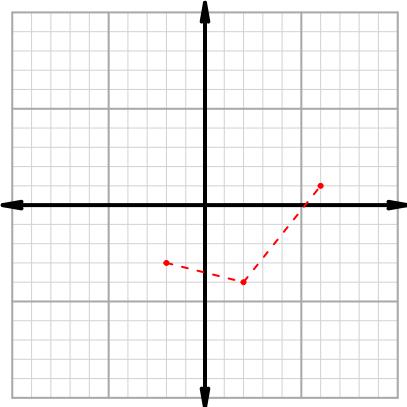
$$y = f(x - 2)$$



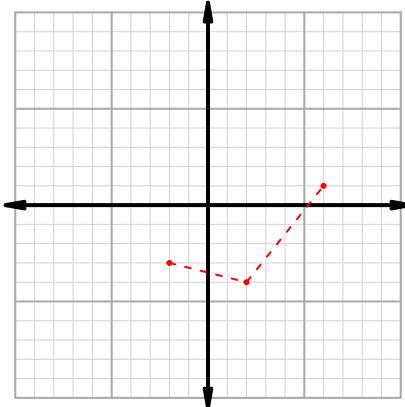
$$y = 2 \cdot f(x)$$



$$y = f(x) - 2$$



$$y = f(2 \cdot x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 32$ and $x_2 = 95$. Express your answer as a reduced fraction.

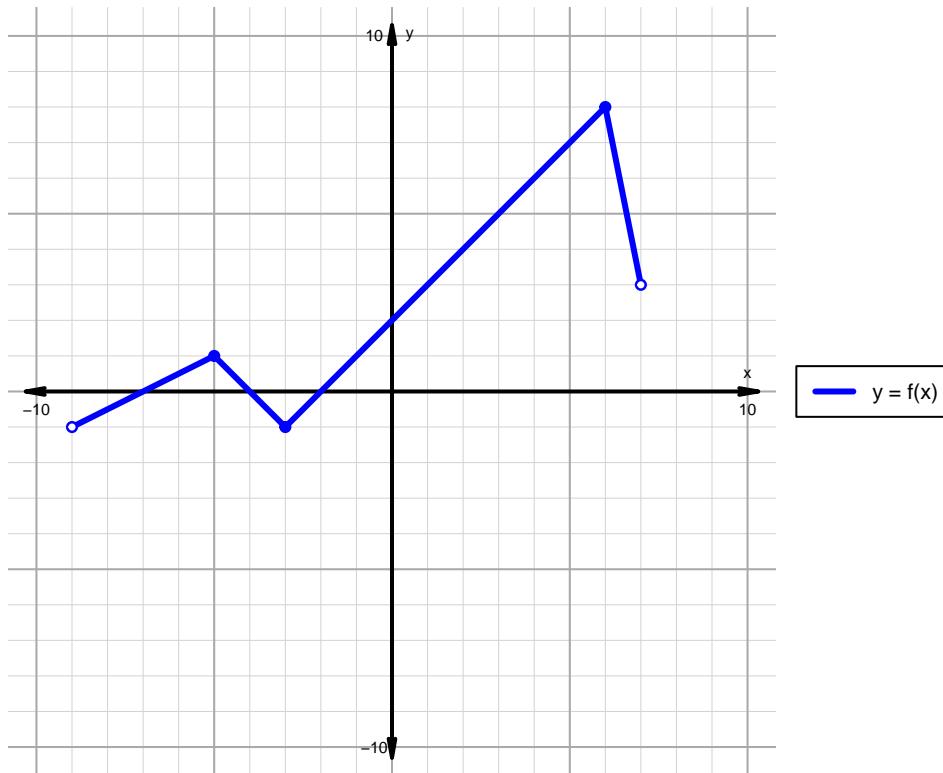
x	$g(x)$
32	74
47	32
74	95
95	47

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 2)

1. The function f is graphed below.



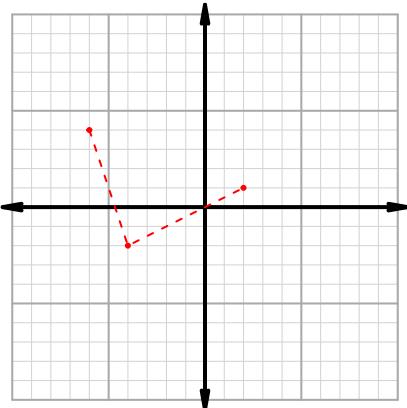
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

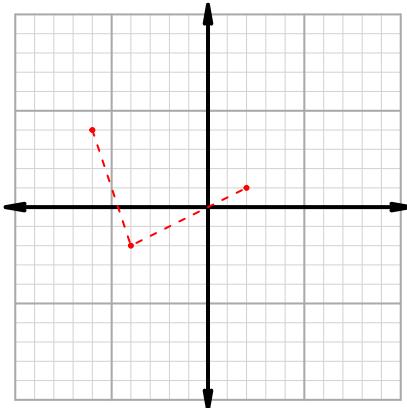
Intervals, Transformations, and Slope Practice (version 2)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

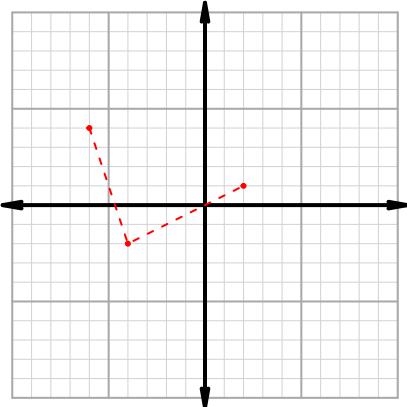
$$y = 2 \cdot f(x)$$



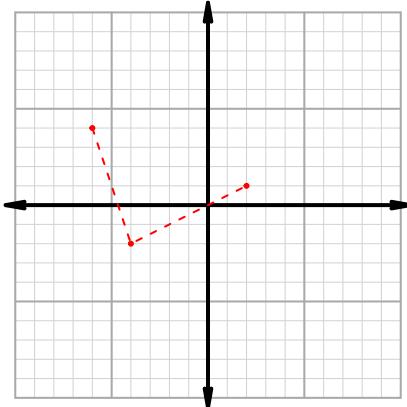
$$y = f(2 \cdot x)$$



$$y = f(x) + 2$$



$$y = f(x+2)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 94$ and $x_2 = 98$. Express your answer as a reduced fraction.

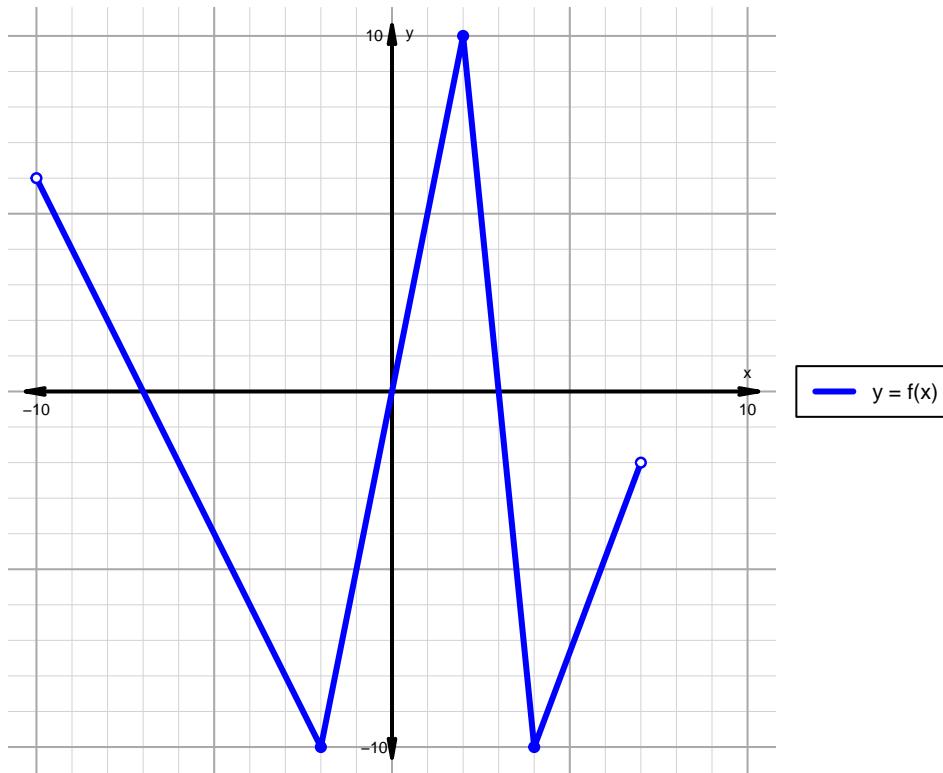
x	$g(x)$
46	94
56	98
94	56
98	46

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 3)

1. The function f is graphed below.



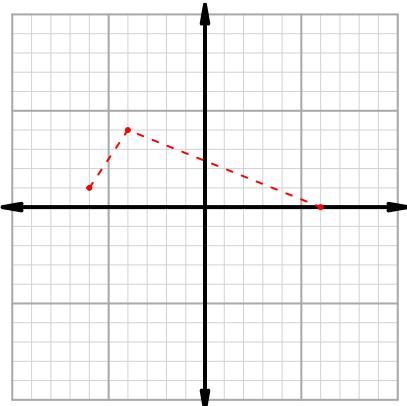
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

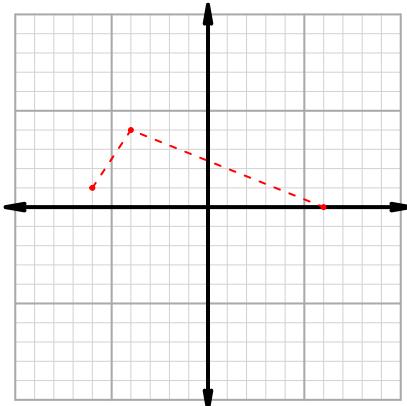
Intervals, Transformations, and Slope Practice (version 3)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

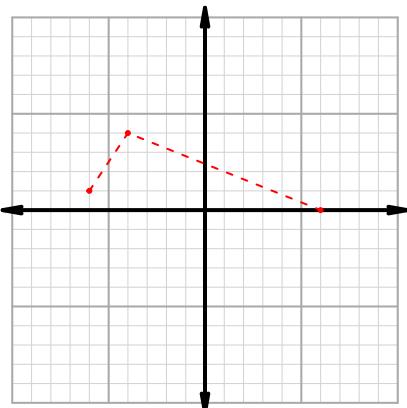
$$y = f(x - 2)$$



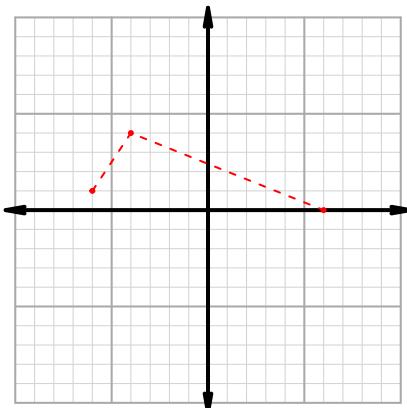
$$y = 2 \cdot f(x)$$



$$y = f(-2 \cdot x)$$



$$y = f(x) - 2$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 70$ and $x_2 = 88$. Express your answer as a reduced fraction.

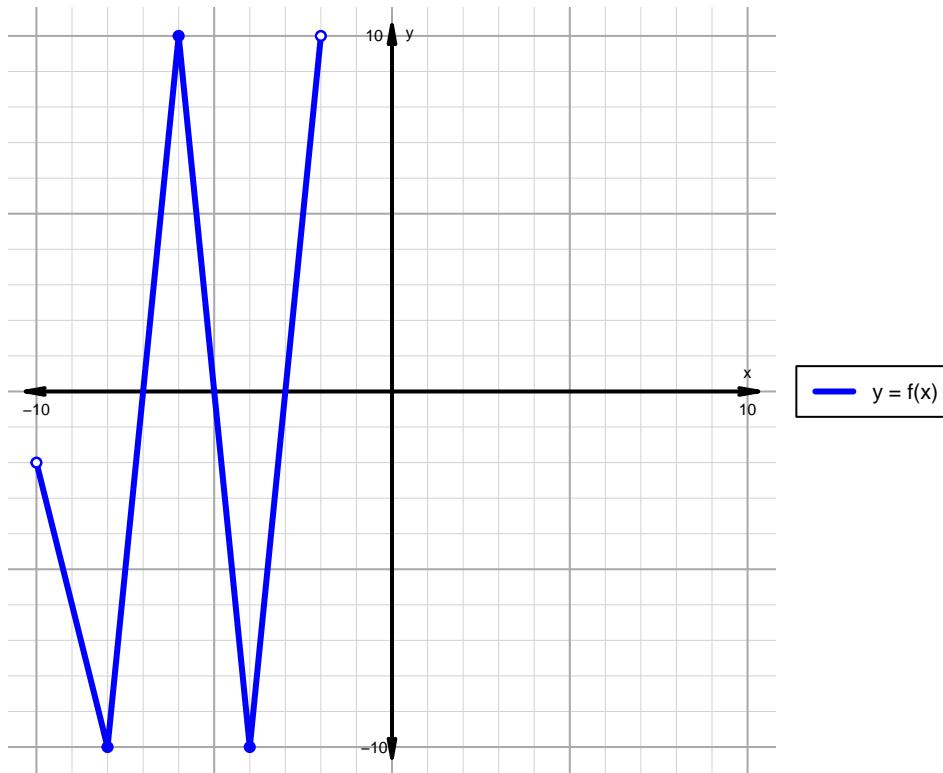
x	$g(x)$
18	88
70	18
88	99
99	70

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 4)

1. The function f is graphed below.



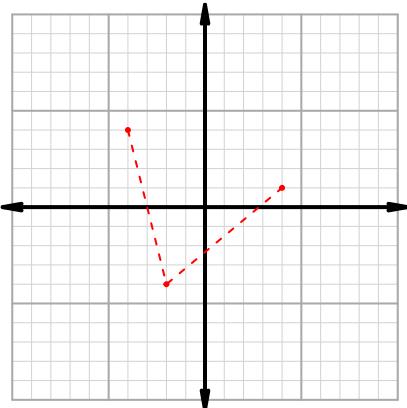
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

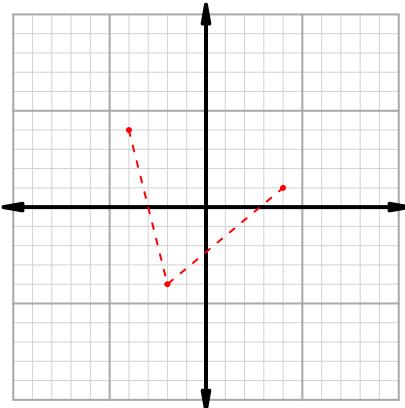
Intervals, Transformations, and Slope Practice (version 4)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

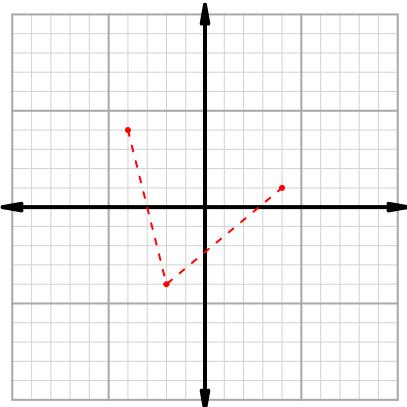
$$y = f(x) - 2$$



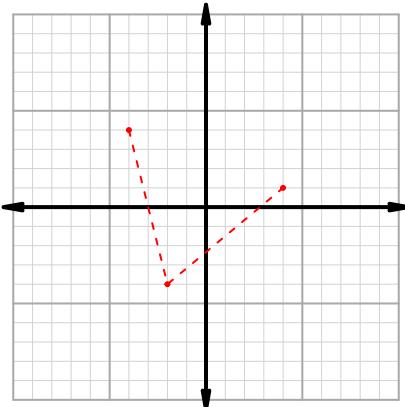
$$y = -2 \cdot f(x)$$



$$y = f(x + 2)$$



$$y = f(-2 \cdot x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 39$ and $x_2 = 75$. Express your answer as a reduced fraction.

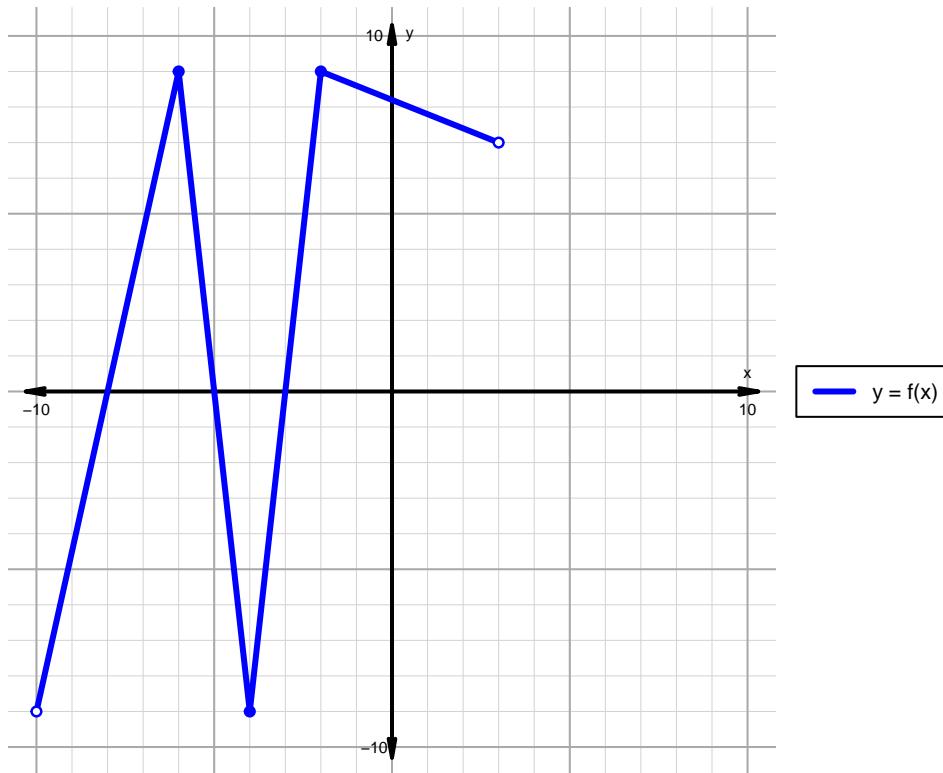
x	$g(x)$
16	75
39	16
58	39
75	58

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 5)

1. The function f is graphed below.



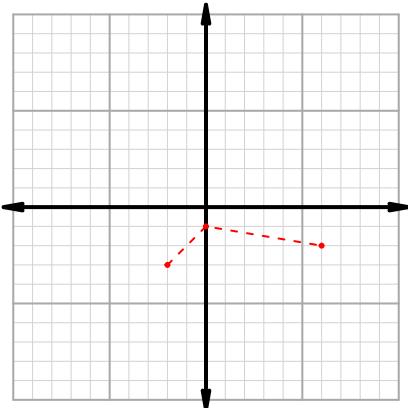
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

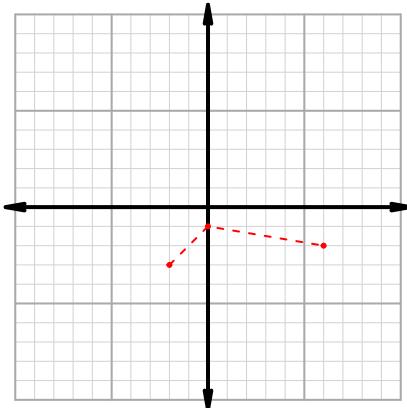
Intervals, Transformations, and Slope Practice (version 5)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

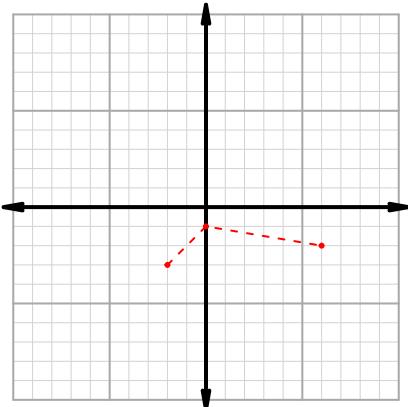
$$y = f(x) - 2$$



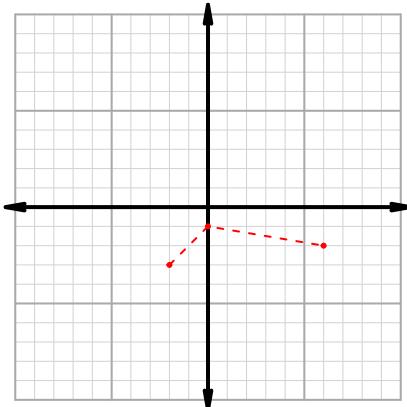
$$y = -2 \cdot f(x)$$



$$y = f(x + 2)$$



$$y = f(2 \cdot x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 34$ and $x_2 = 54$. Express your answer as a reduced fraction.

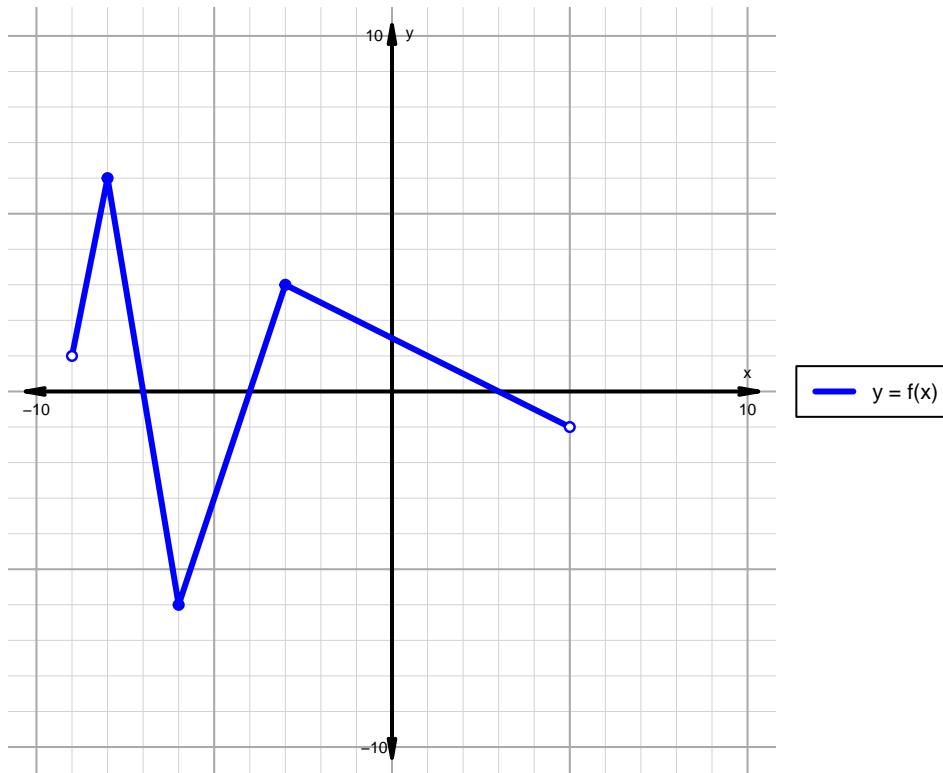
x	$g(x)$
34	97
54	62
62	34
97	54

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 6)

1. The function f is graphed below.



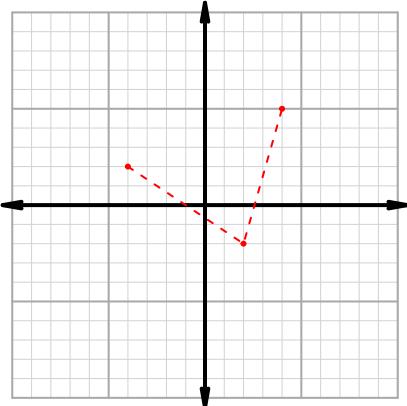
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

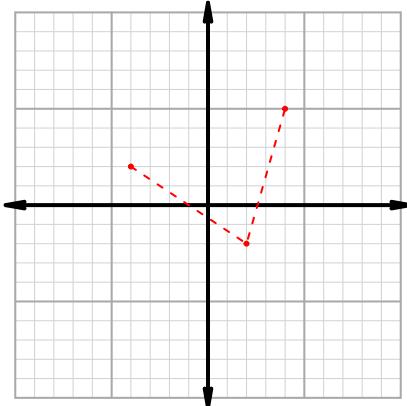
Intervals, Transformations, and Slope Practice (version 6)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

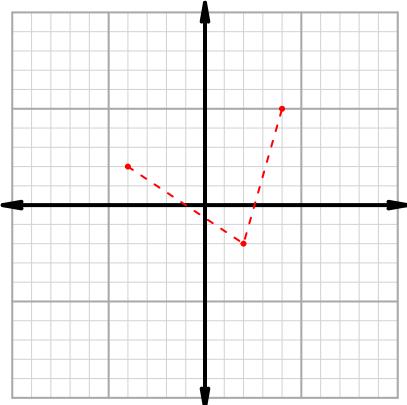
$$y = -2 \cdot f(x)$$



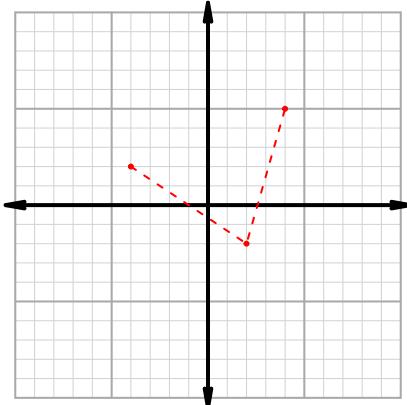
$$y = f(x) - 2$$



$$y = f(2 \cdot x)$$



$$y = f(x - 2)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 13$ and $x_2 = 29$. Express your answer as a reduced fraction.

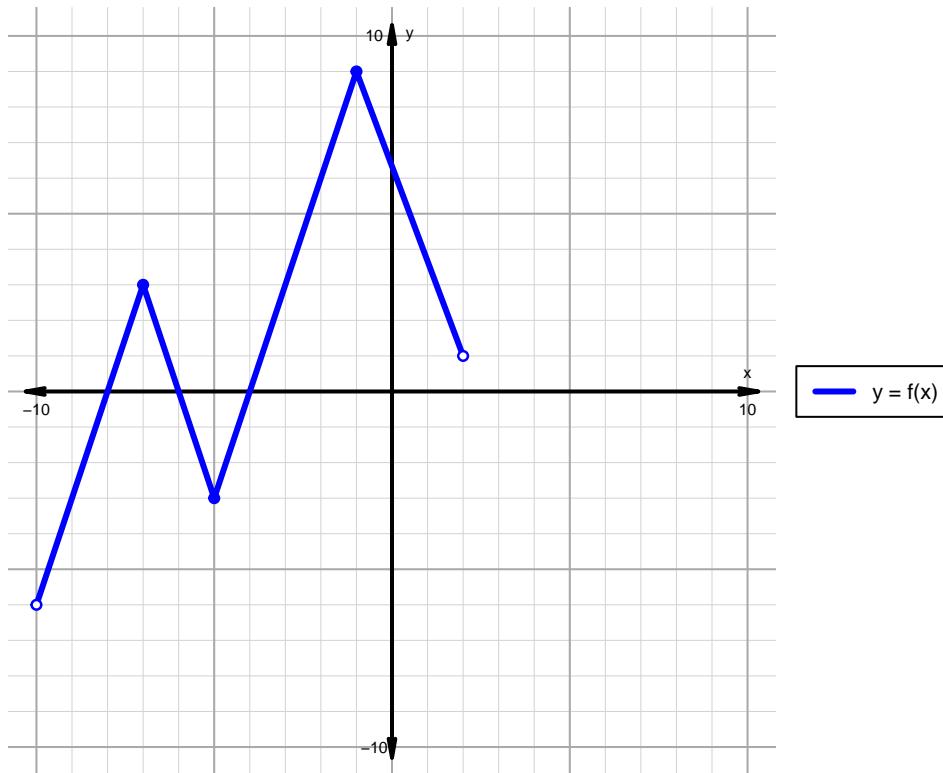
x	$g(x)$
13	44
29	30
30	13
44	29

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 7)

1. The function f is graphed below.



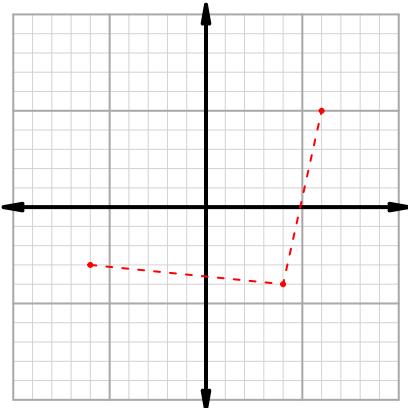
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

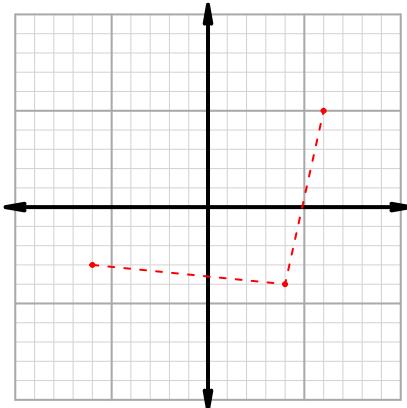
Intervals, Transformations, and Slope Practice (version 7)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

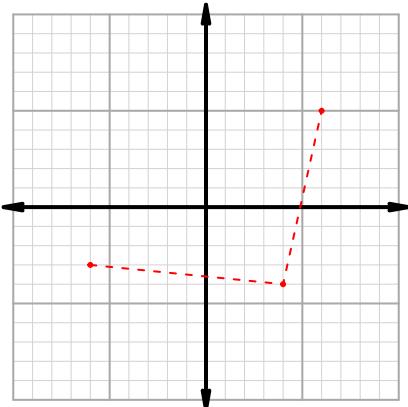
$$y = f(-2 \cdot x)$$



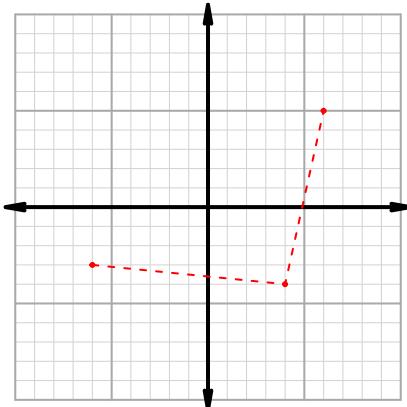
$$y = f(x + 2)$$



$$y = f(x) + 2$$



$$y = -2 \cdot f(x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 66$ and $x_2 = 81$. Express your answer as a reduced fraction.

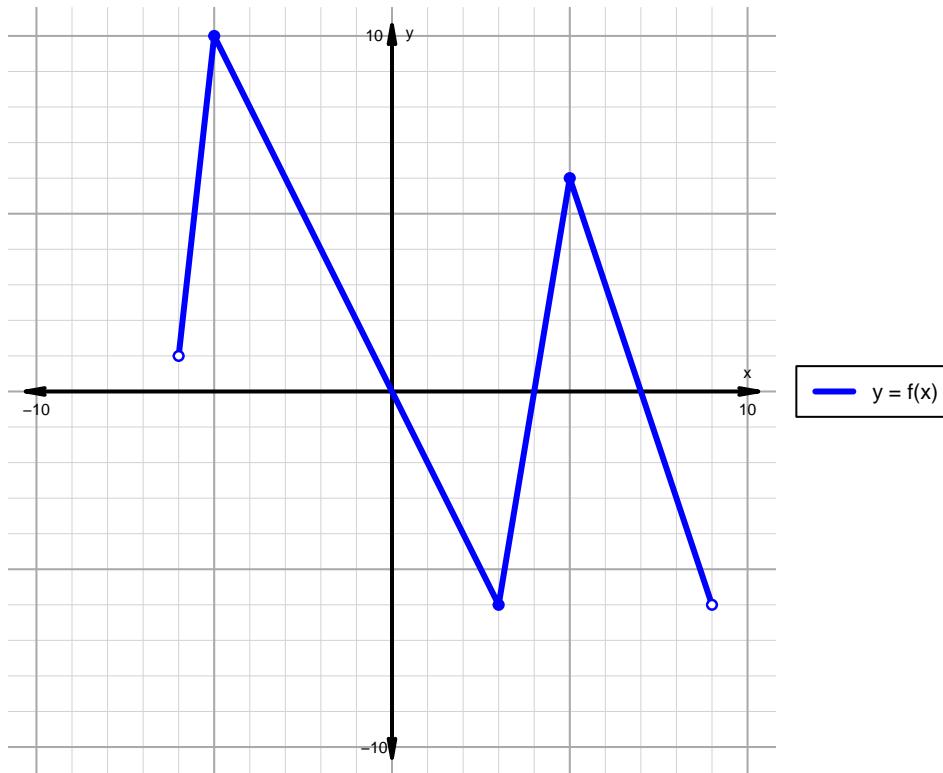
x	$g(x)$
2	66
23	81
66	23
81	2

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 8)

1. The function f is graphed below.



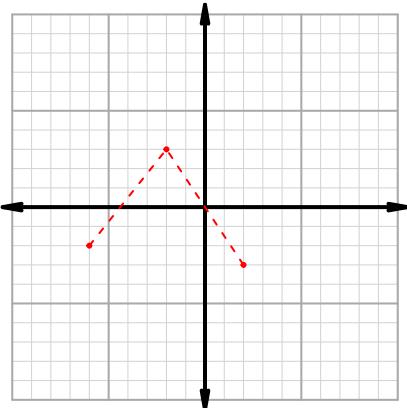
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

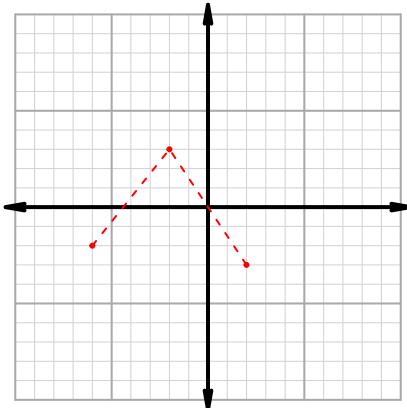
Intervals, Transformations, and Slope Practice (version 8)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

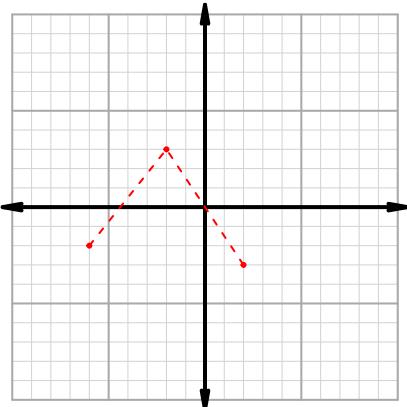
$$y = f(x) + 2$$



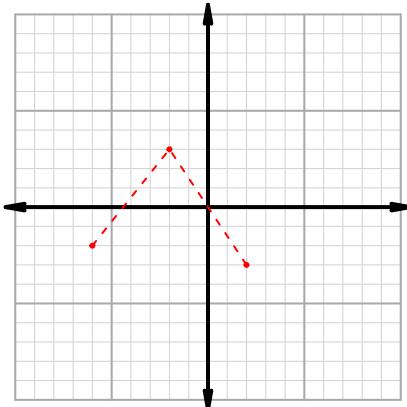
$$y = f(x + 2)$$



$$y = 2 \cdot f(x)$$



$$y = f(-2 \cdot x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 47$ and $x_2 = 87$. Express your answer as a reduced fraction.

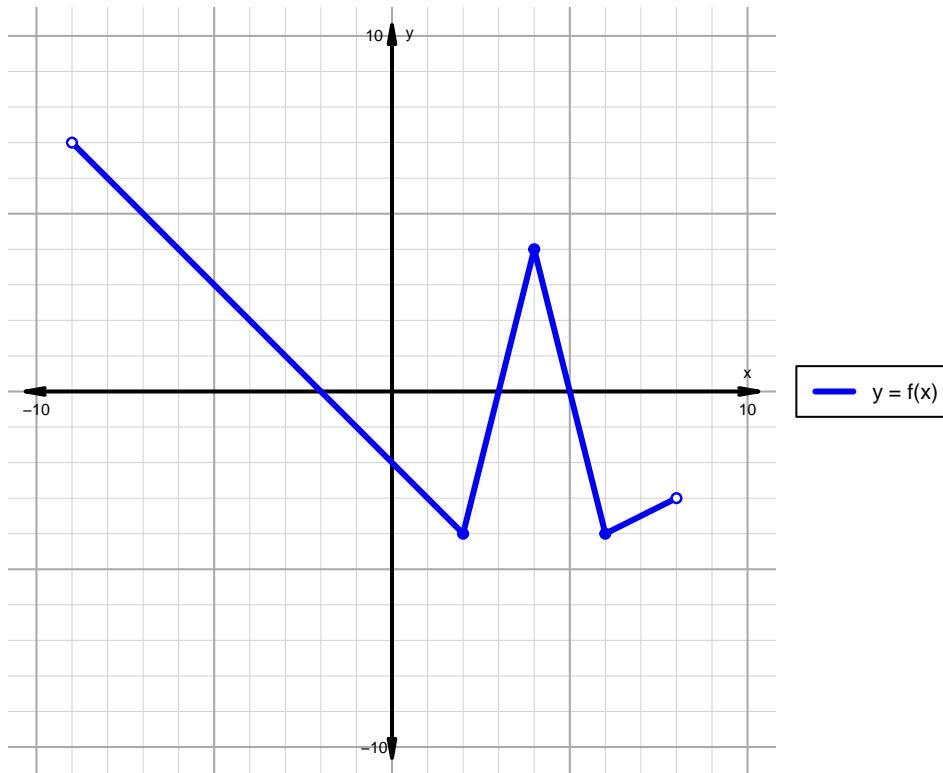
x	$g(x)$
47	73
73	87
78	47
87	78

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 9)

1. The function f is graphed below.



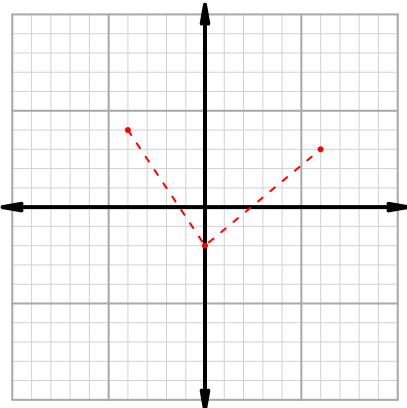
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

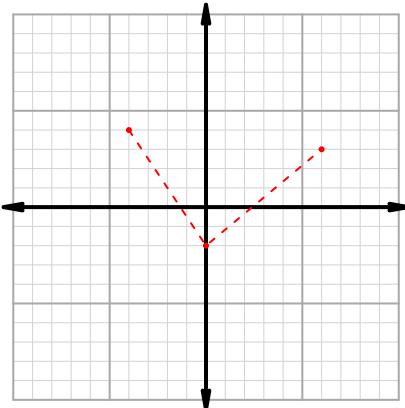
Intervals, Transformations, and Slope Practice (version 9)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

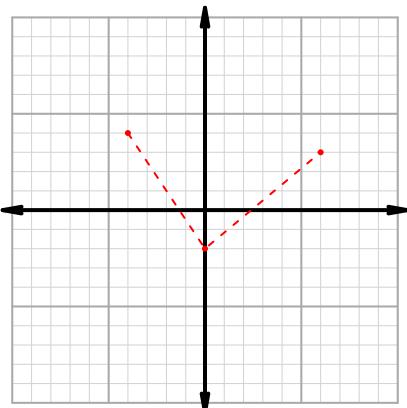
$$y = f(x+2)$$



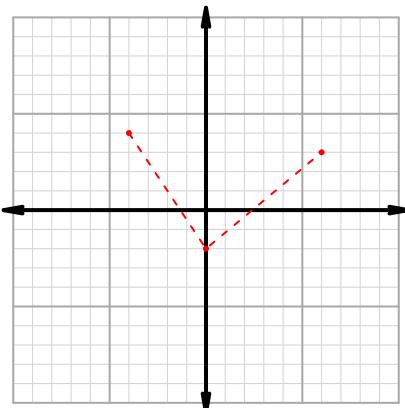
$$y = f(x) + 2$$



$$y = f(2 \cdot x)$$



$$y = 2 \cdot f(x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 23$ and $x_2 = 65$. Express your answer as a reduced fraction.

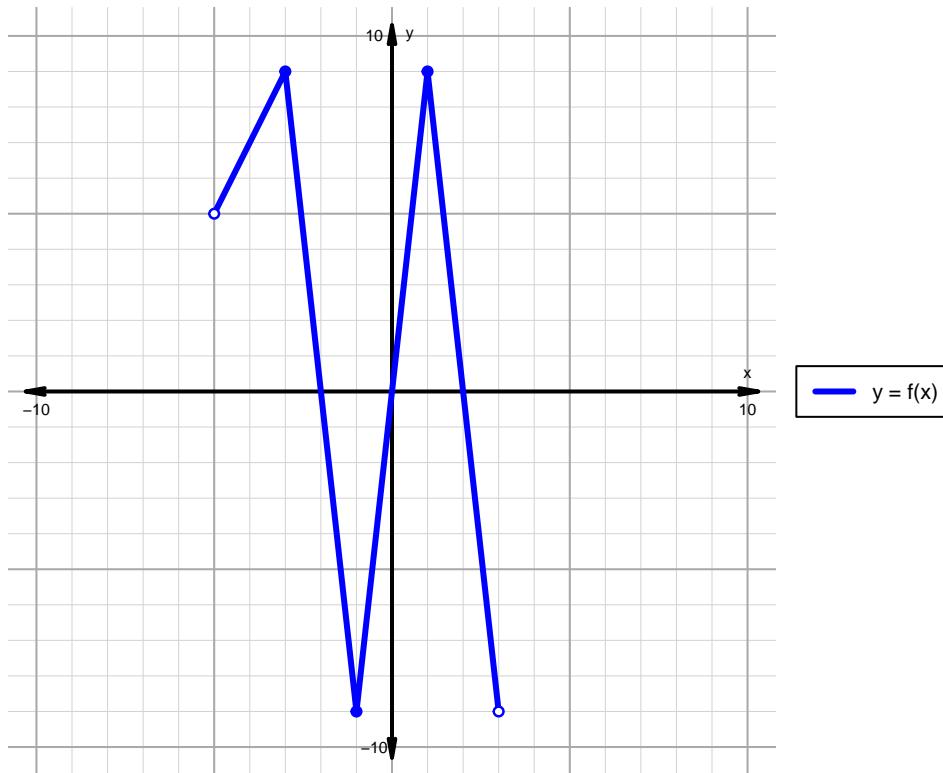
x	$g(x)$
23	61
55	23
61	65
65	55

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 10)

1. The function f is graphed below.



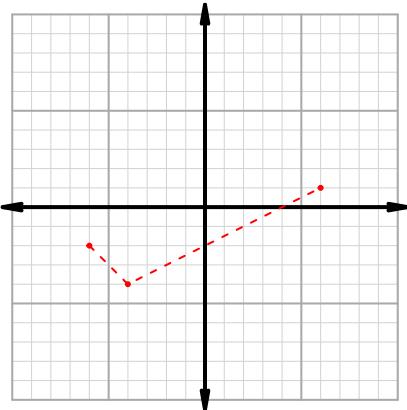
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

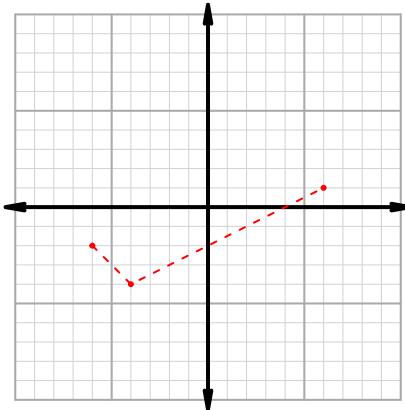
Intervals, Transformations, and Slope Practice (version 10)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

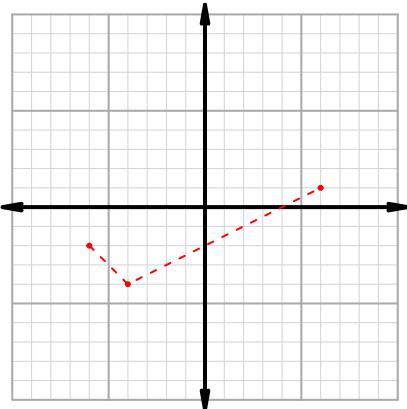
$$y = f(-2 \cdot x)$$



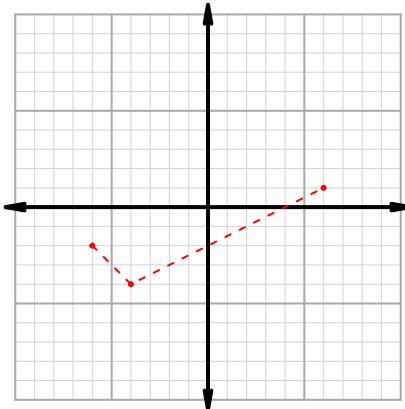
$$y = f(x) + 2$$



$$y = f(x - 2)$$



$$y = 2 \cdot f(x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 27$ and $x_2 = 57$. Express your answer as a reduced fraction.

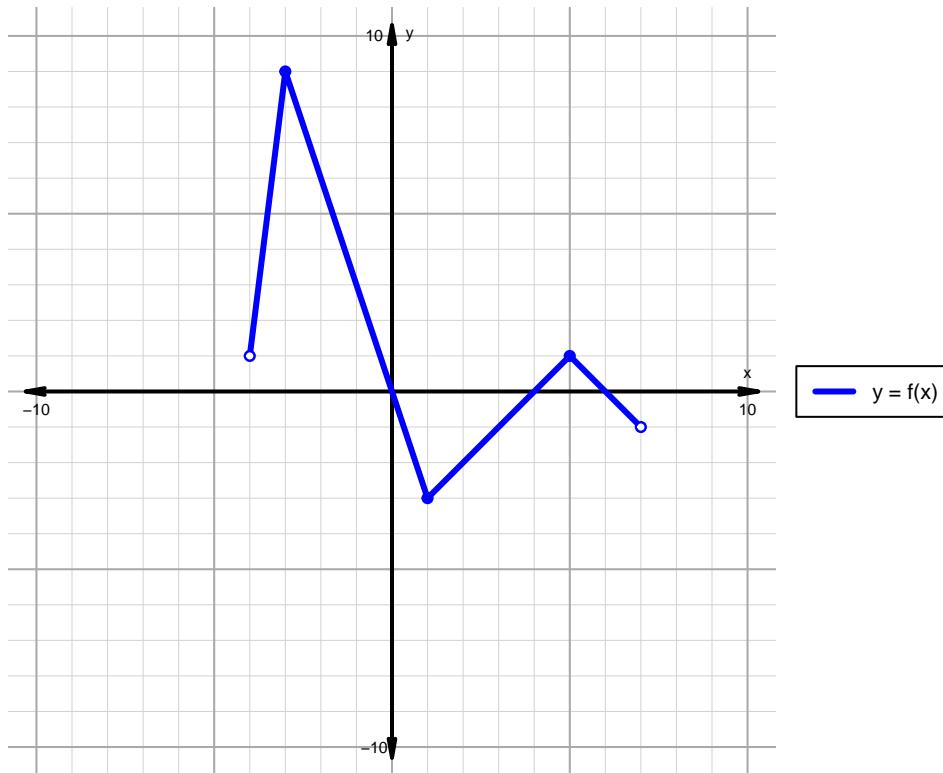
x	$g(x)$
17	57
27	17
35	27
57	35

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 11)

1. The function f is graphed below.



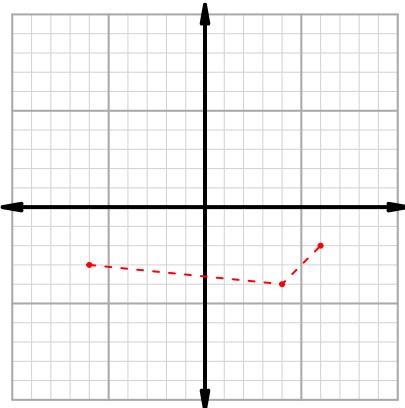
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

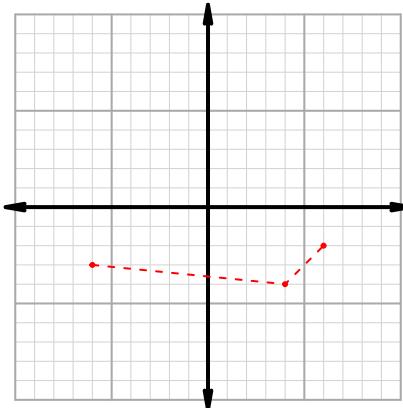
Intervals, Transformations, and Slope Practice (version 11)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

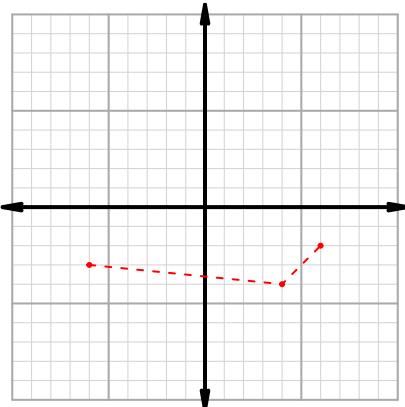
$$y = f(2 \cdot x)$$



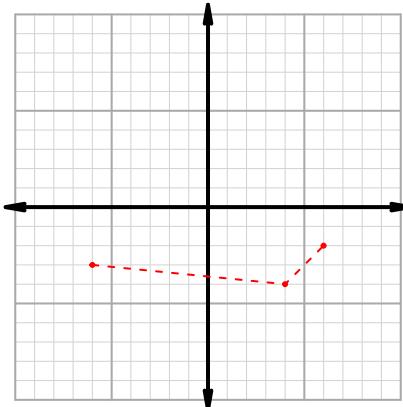
$$y = -2 \cdot f(x)$$



$$y = f(x + 2)$$



$$y = f(x) - 2$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 39$ and $x_2 = 79$. Express your answer as a reduced fraction.

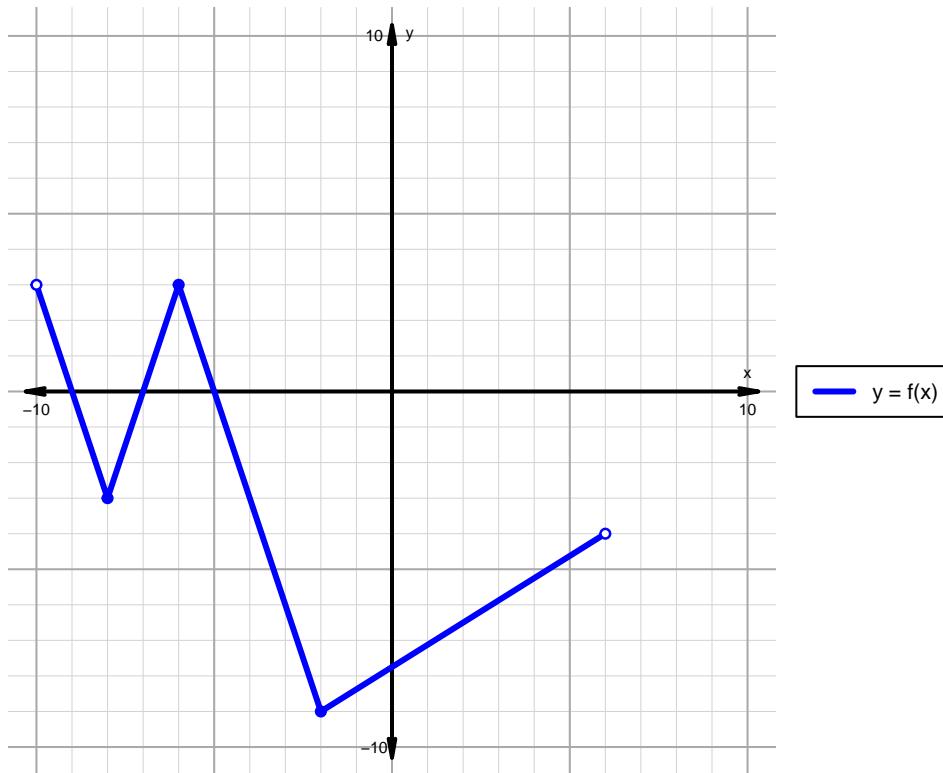
x	$g(x)$
4	39
29	79
39	29
79	4

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 12)

1. The function f is graphed below.



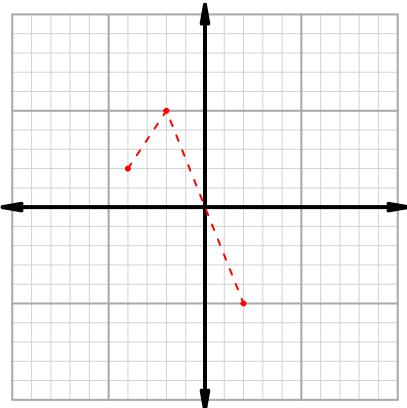
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

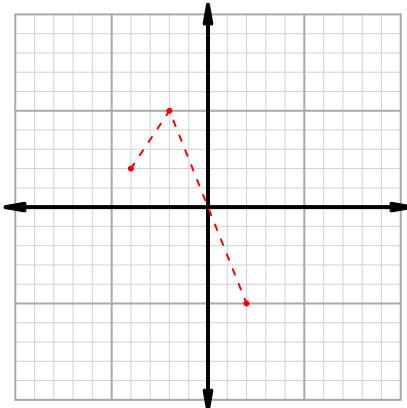
Intervals, Transformations, and Slope Practice (version 12)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

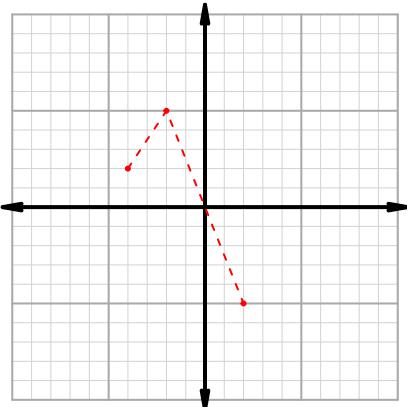
$$y = f(x) + 2$$



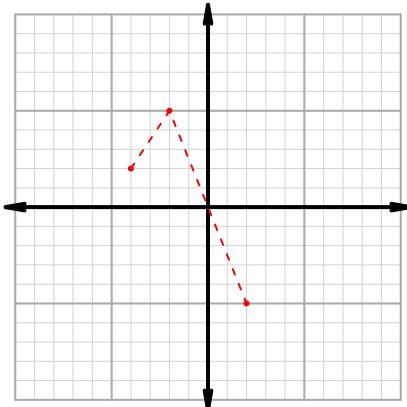
$$y = f(-2 \cdot x)$$



$$y = 2 \cdot f(x)$$



$$y = f(x - 2)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 43$ and $x_2 = 85$. Express your answer as a reduced fraction.

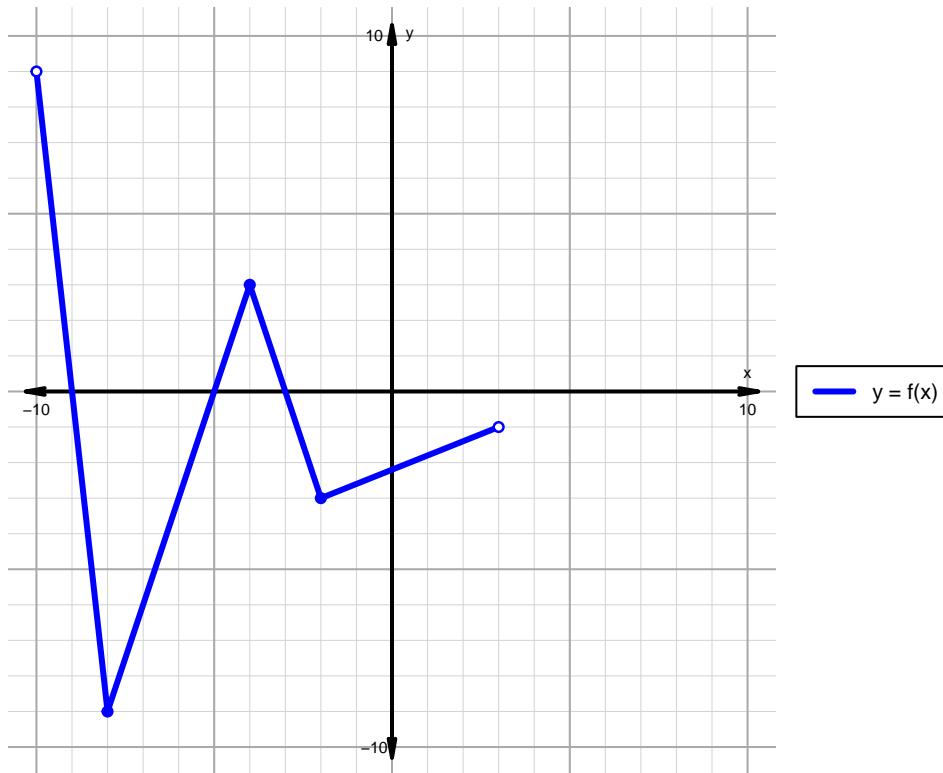
x	$g(x)$
43	63
63	85
75	43
85	75

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 13)

1. The function f is graphed below.



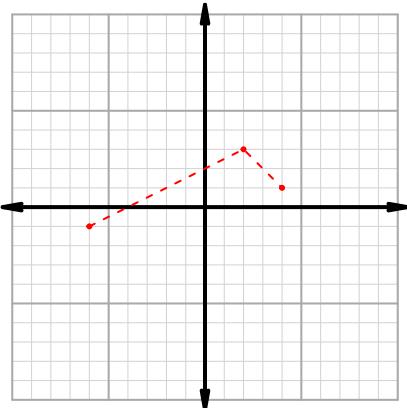
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

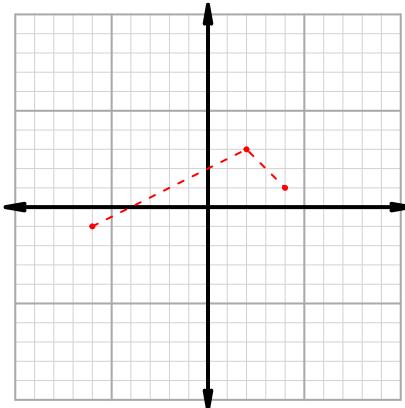
Intervals, Transformations, and Slope Practice (version 13)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

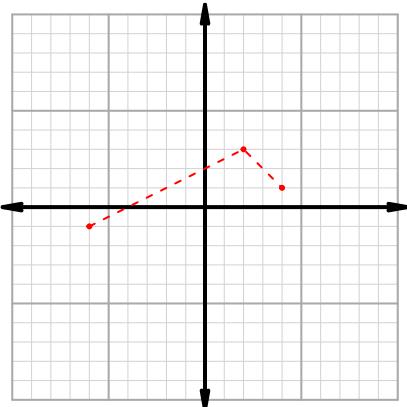
$$y = f(-2 \cdot x)$$



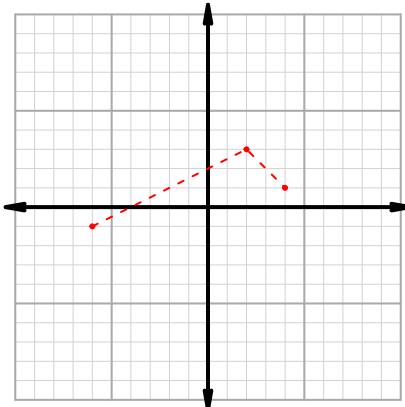
$$y = 2 \cdot f(x)$$



$$y = f(x + 2)$$



$$y = f(x) + 2$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 21$ and $x_2 = 66$. Express your answer as a reduced fraction.

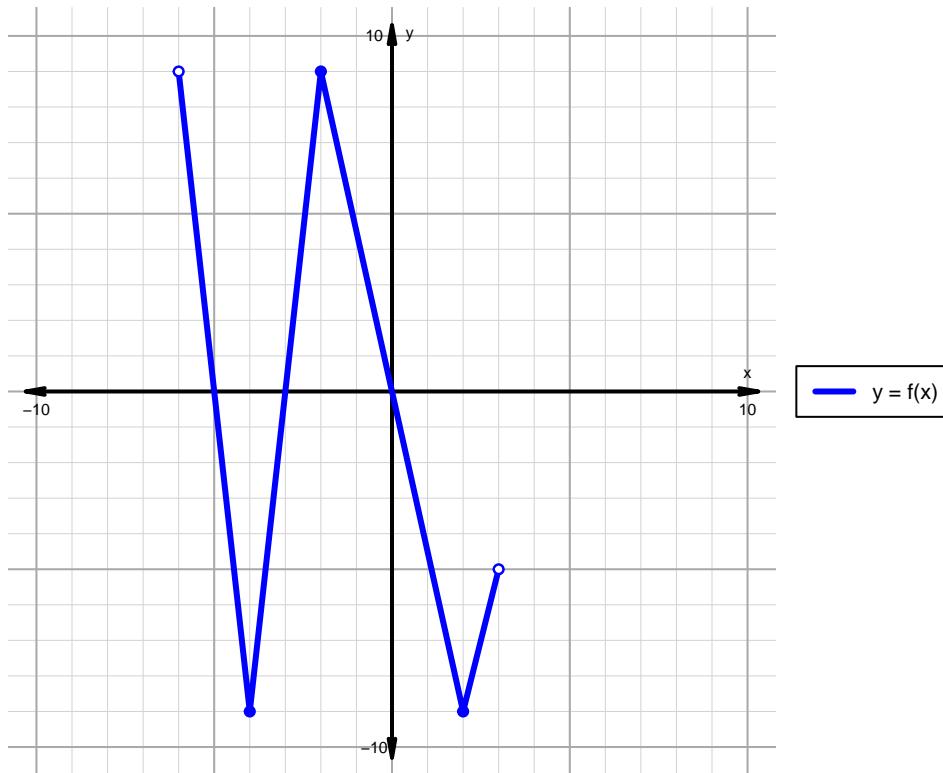
x	$g(x)$
21	67
66	92
67	66
92	21

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 14)

1. The function f is graphed below.



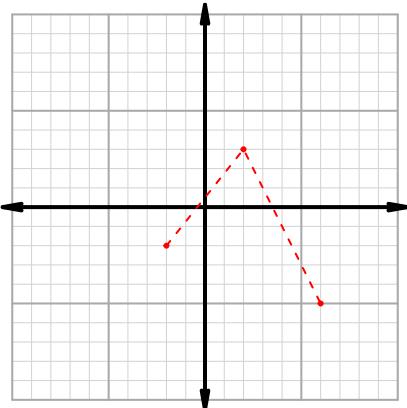
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

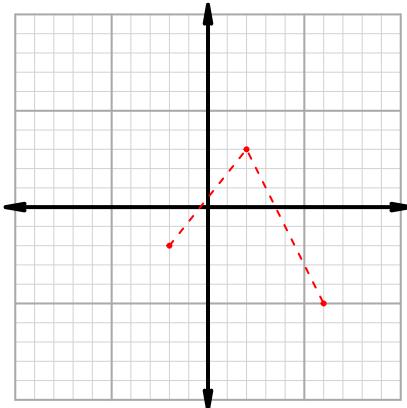
Intervals, Transformations, and Slope Practice (version 14)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

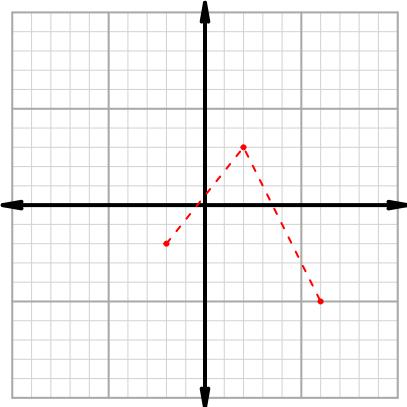
$$y = f(x) + 2$$



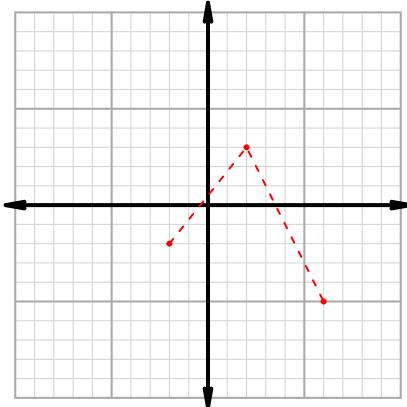
$$y = 2 \cdot f(x)$$



$$y = f(-2 \cdot x)$$



$$y = f(x - 2)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 35$ and $x_2 = 91$. Express your answer as a reduced fraction.

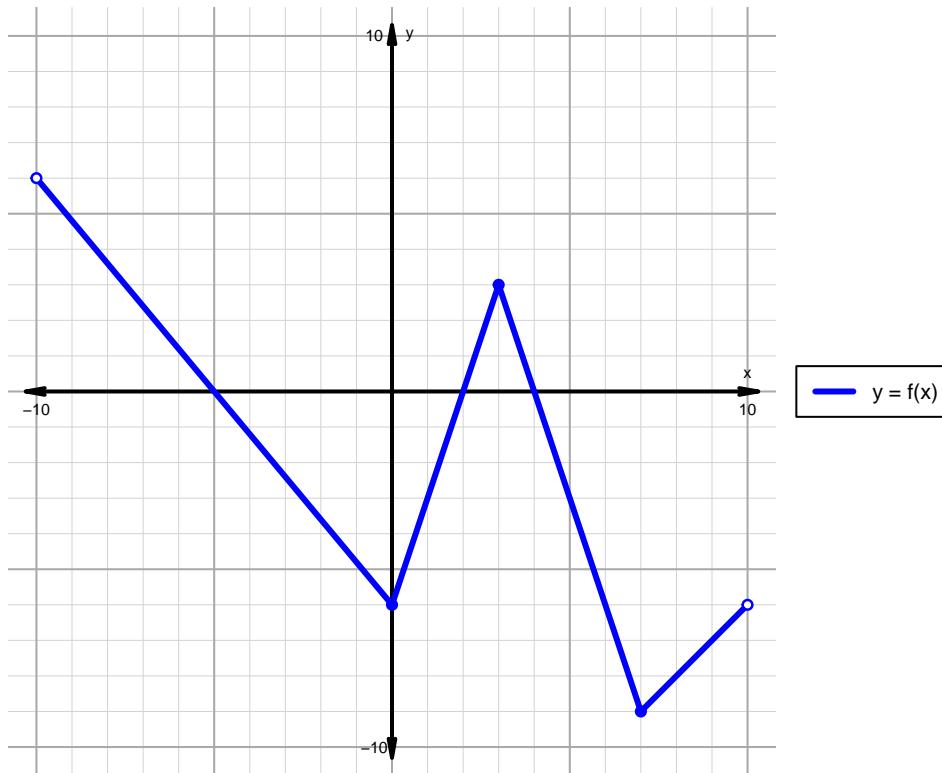
x	$g(x)$
35	42
42	91
63	35
91	63

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 15)

1. The function f is graphed below.



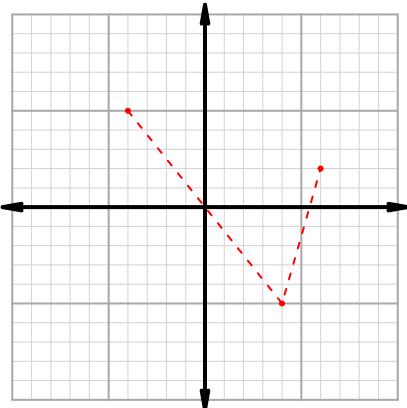
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

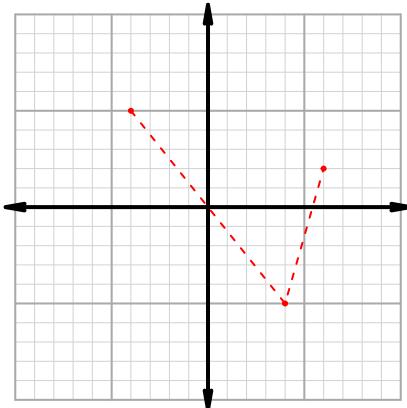
Intervals, Transformations, and Slope Practice (version 15)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

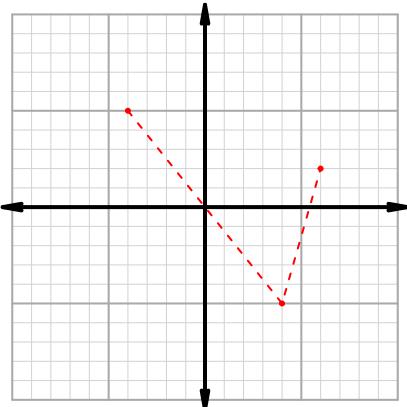
$$y = f(x) + 2$$



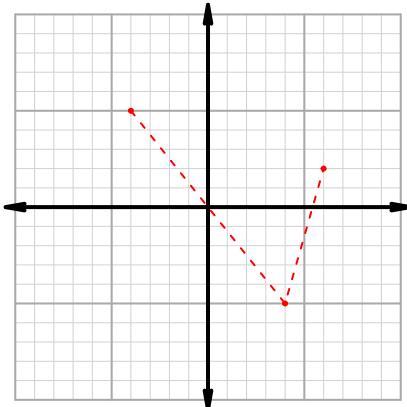
$$y = f(-2 \cdot x)$$



$$y = f(x + 2)$$



$$y = -2 \cdot f(x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 23$ and $x_2 = 65$. Express your answer as a reduced fraction.

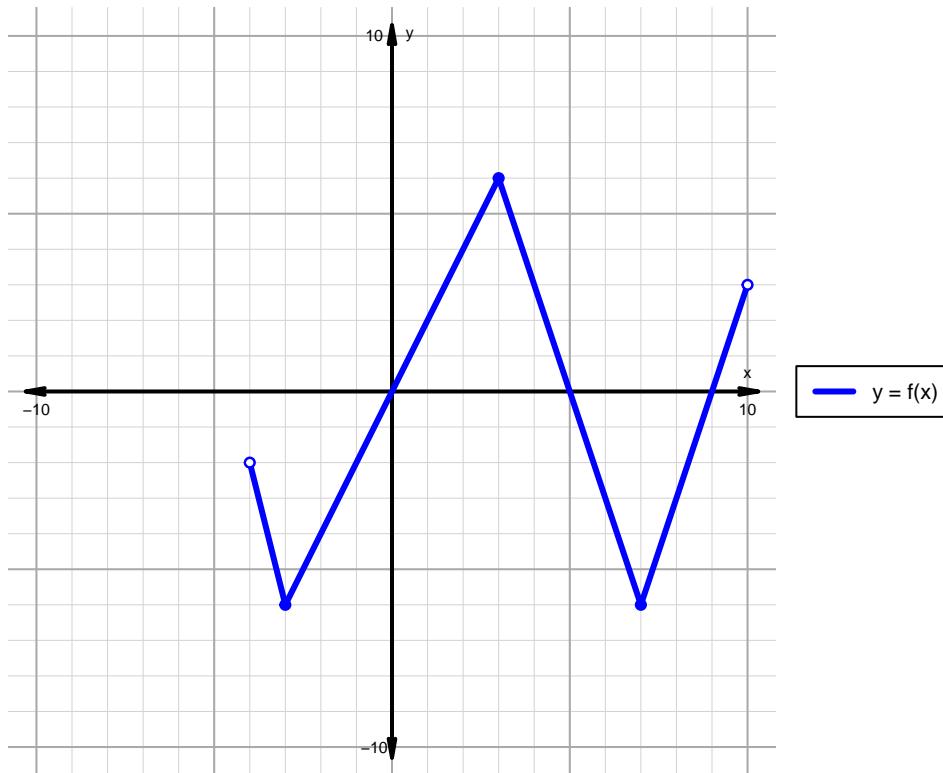
x	$g(x)$
23	61
61	65
65	67
67	23

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 16)

1. The function f is graphed below.



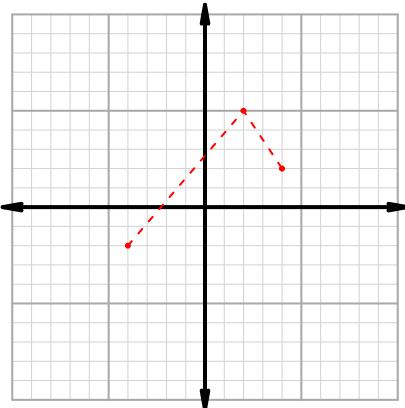
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

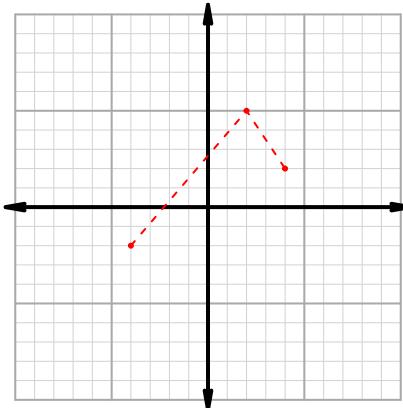
Intervals, Transformations, and Slope Practice (version 16)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

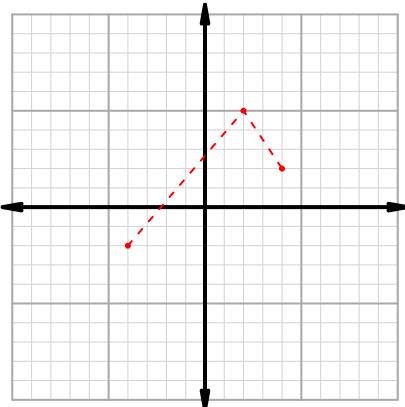
$$y = 2 \cdot f(x)$$



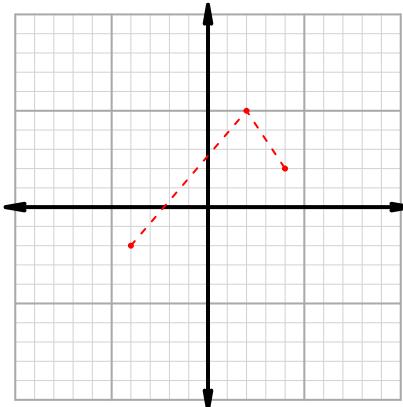
$$y = f(2 \cdot x)$$



$$y = f(x - 2)$$



$$y = f(x) - 2$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 31$ and $x_2 = 73$. Express your answer as a reduced fraction.

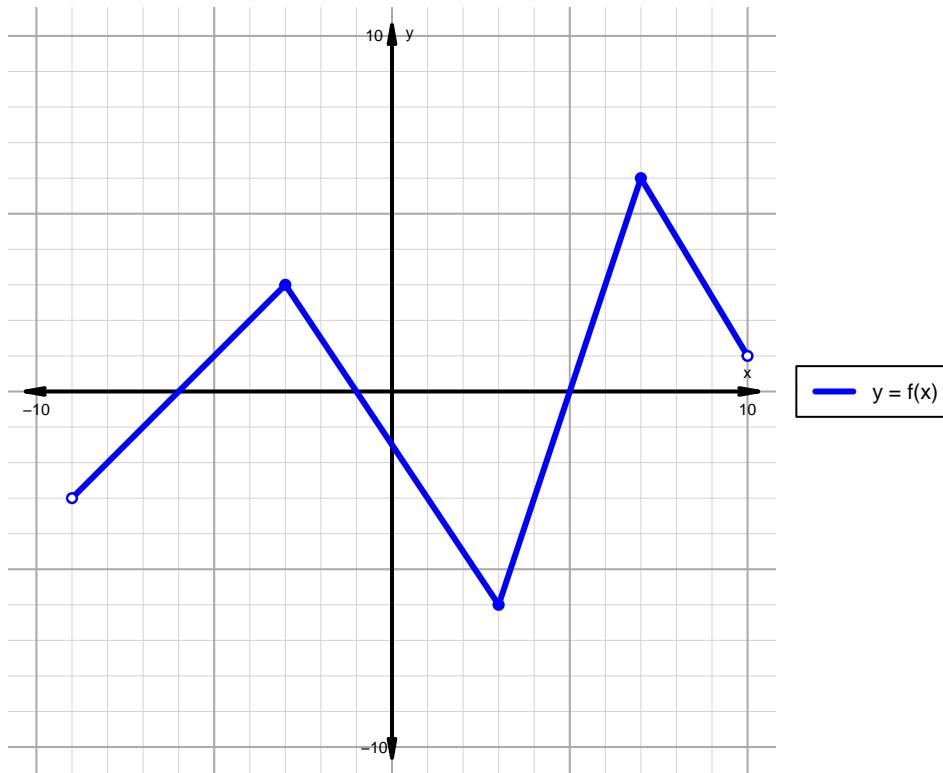
x	$g(x)$
16	31
31	70
70	73
73	16

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 17)

1. The function f is graphed below.



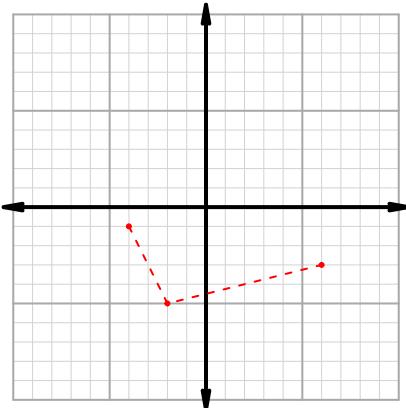
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

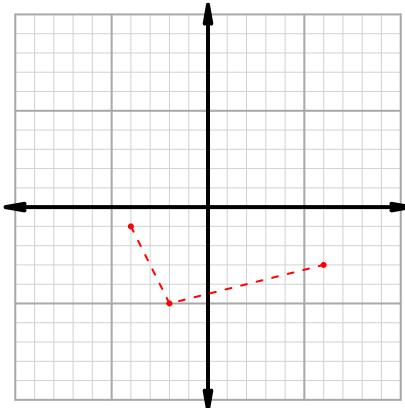
Intervals, Transformations, and Slope Practice (version 17)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

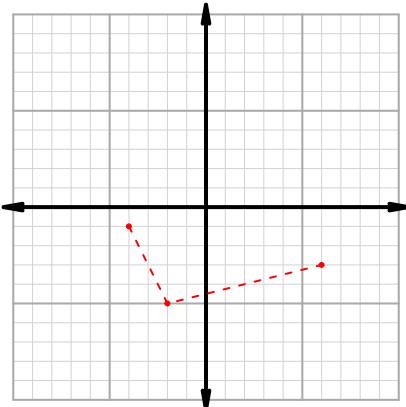
$$y = 2 \cdot f(x)$$



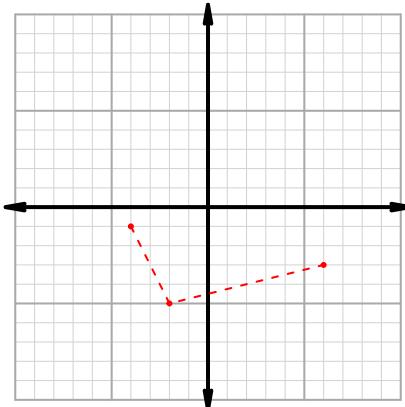
$$y = f(x) - 2$$



$$y = f(2 \cdot x)$$



$$y = f(x - 2)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 22$ and $x_2 = 62$. Express your answer as a reduced fraction.

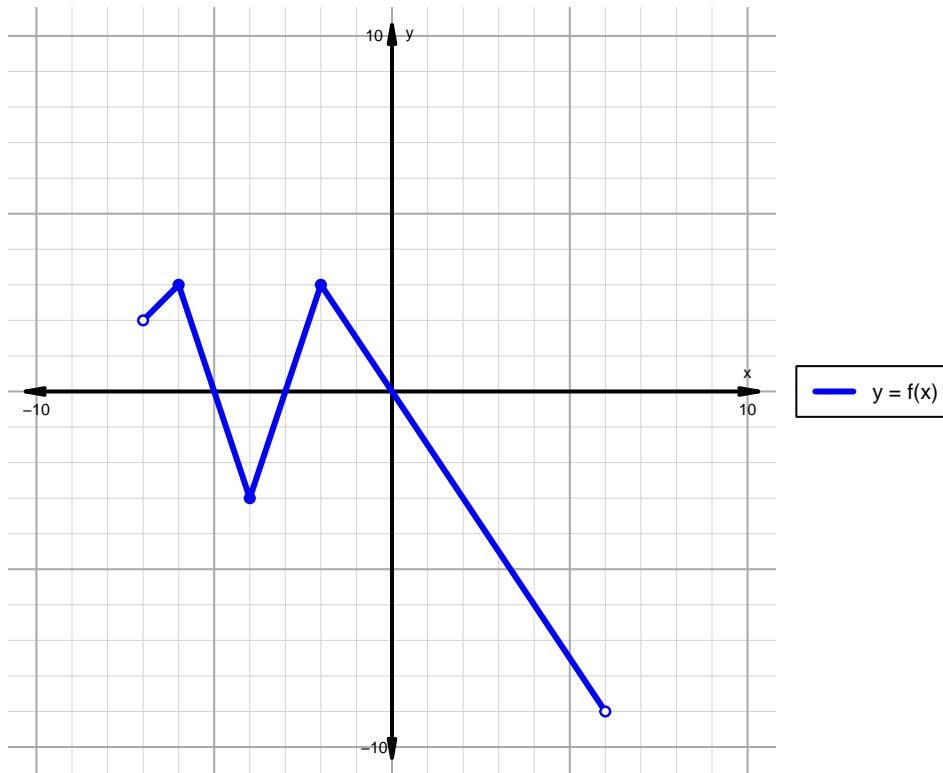
x	$g(x)$
2	22
22	58
58	62
62	2

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 18)

1. The function f is graphed below.



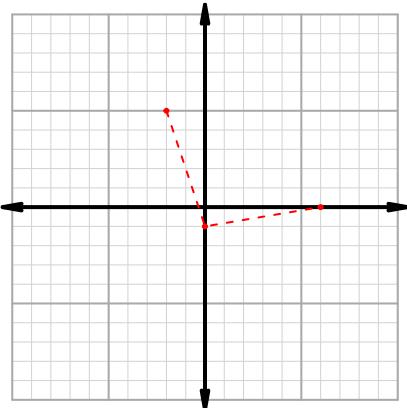
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

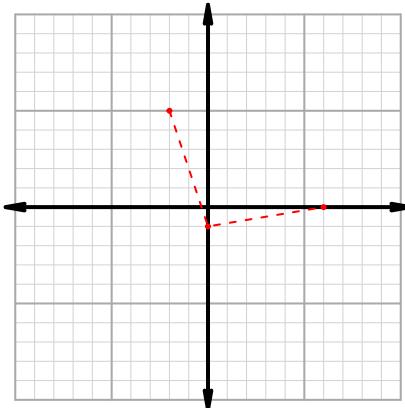
Intervals, Transformations, and Slope Practice (version 18)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

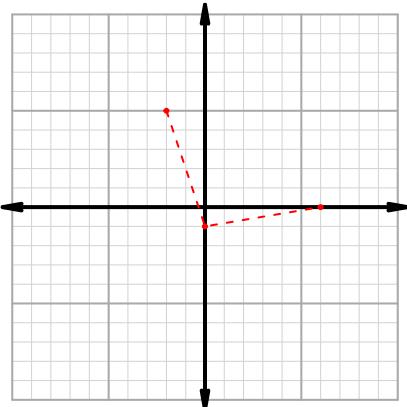
$$y = f(-2 \cdot x)$$



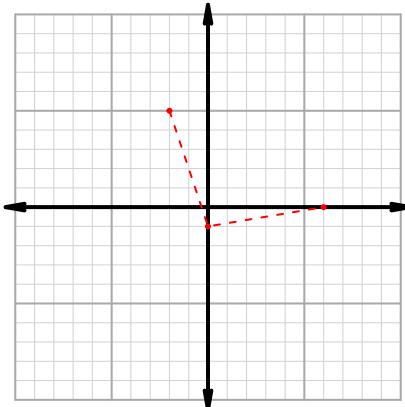
$$y = f(x + 2)$$



$$y = 2 \cdot f(x)$$



$$y = f(x) + 2$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 61$ and $x_2 = 76$. Express your answer as a reduced fraction.

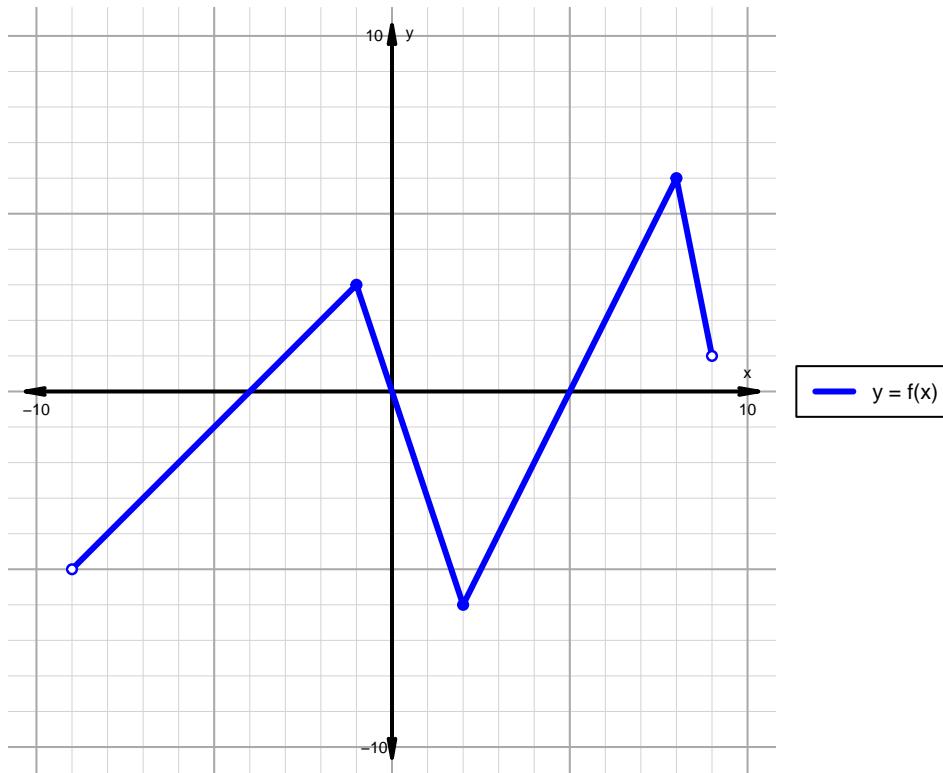
x	$g(x)$
31	61
58	76
61	58
76	31

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 19)

1. The function f is graphed below.



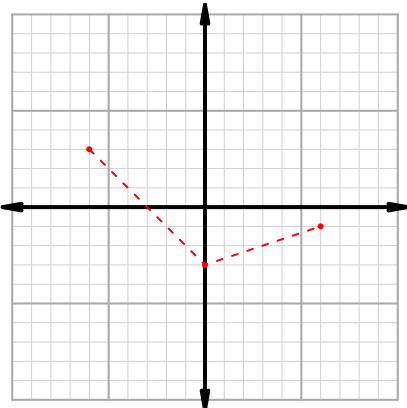
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

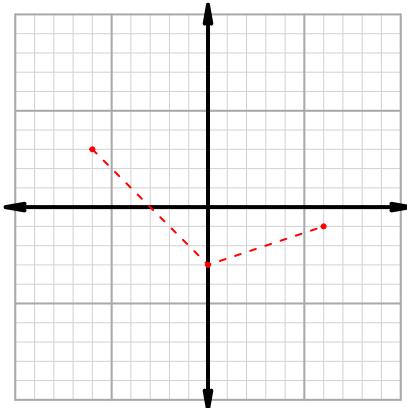
Intervals, Transformations, and Slope Practice (version 19)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

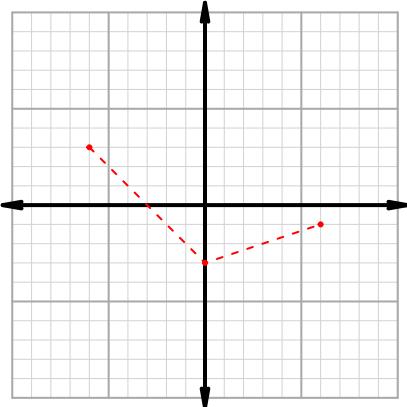
$$y = 2 \cdot f(x)$$



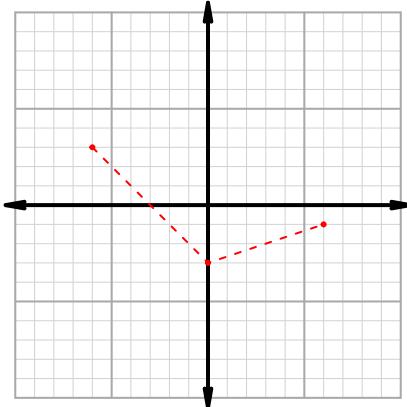
$$y = f(x - 2)$$



$$y = f(x) - 2$$



$$y = f(2 \cdot x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 55$ and $x_2 = 69$. Express your answer as a reduced fraction.

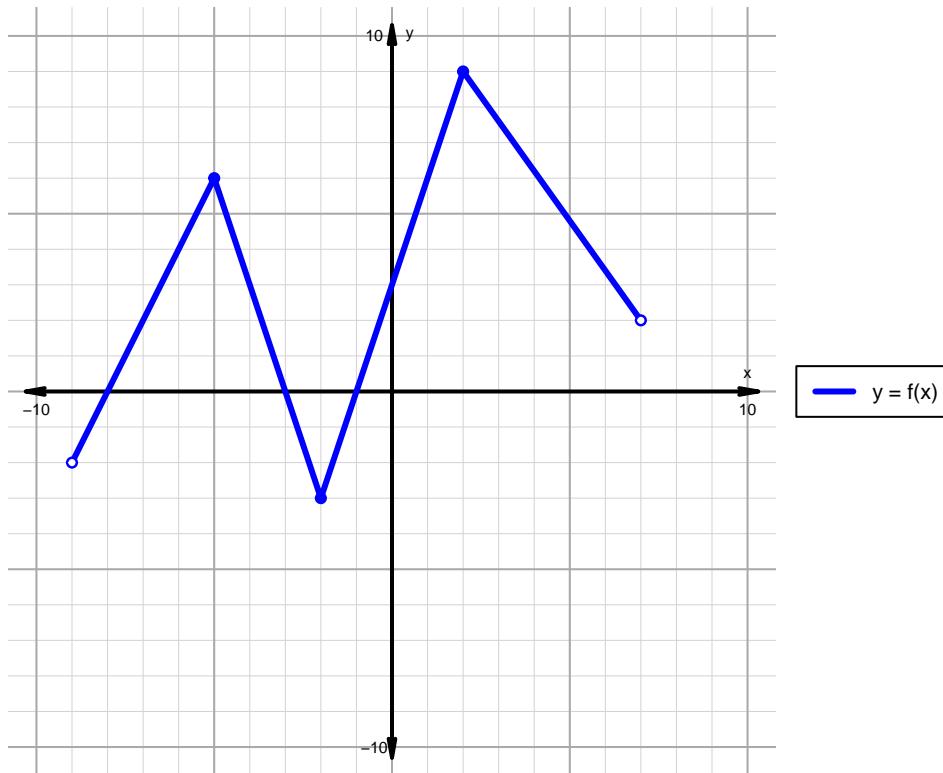
x	$g(x)$
55	73
66	55
69	66
73	69

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 20)

1. The function f is graphed below.



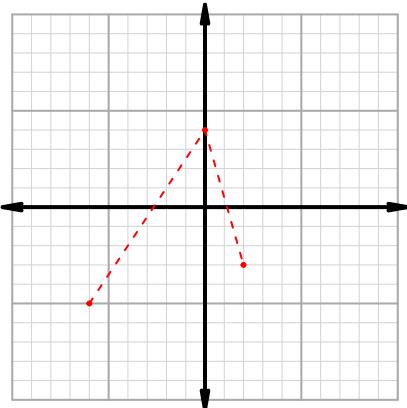
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

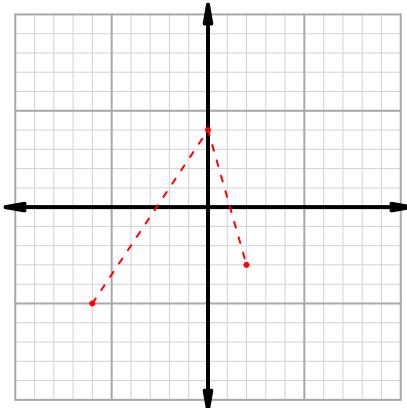
Intervals, Transformations, and Slope Practice (version 20)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

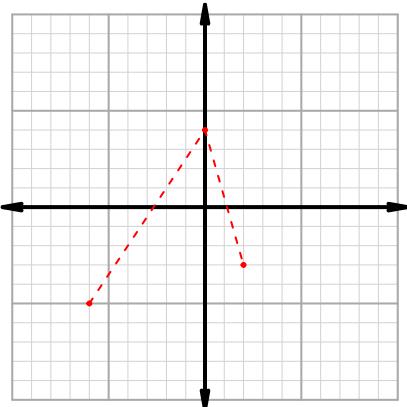
$$y = f(x - 2)$$



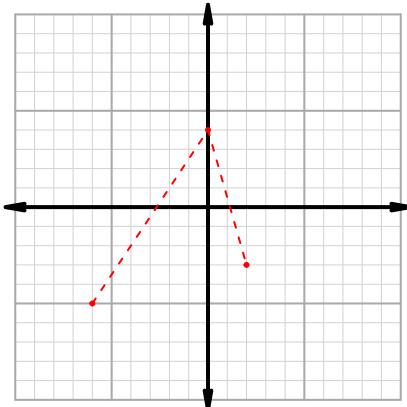
$$y = f(-2 \cdot x)$$



$$y = 2 \cdot f(x)$$



$$y = f(x) - 2$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 22$ and $x_2 = 26$. Express your answer as a reduced fraction.

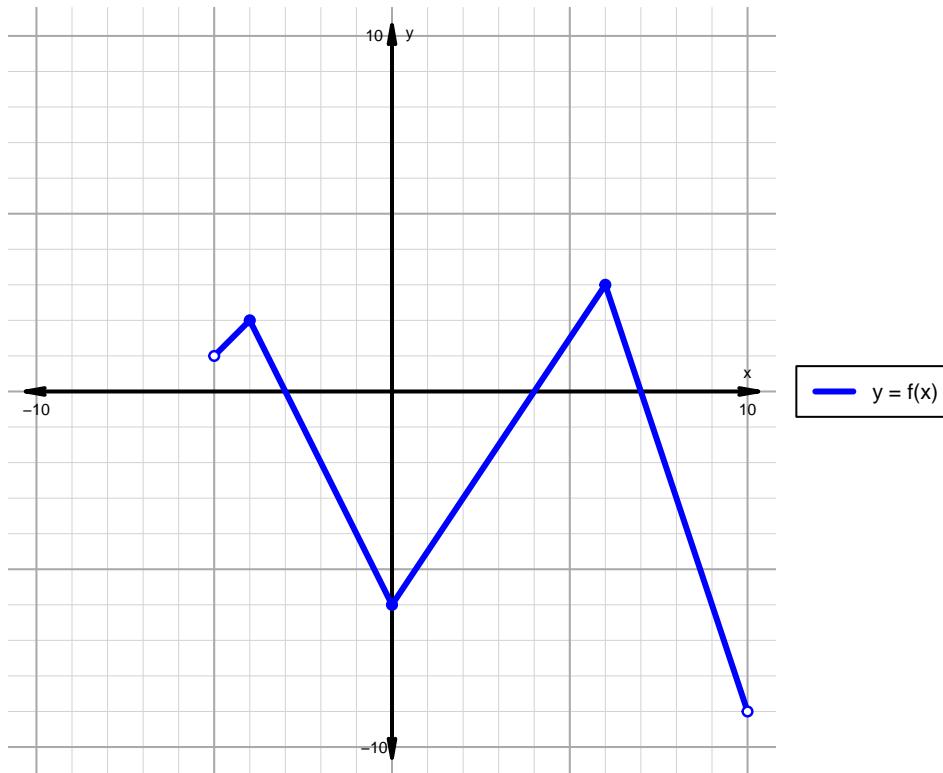
x	$g(x)$
22	51
26	69
51	26
69	22

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 21)

1. The function f is graphed below.



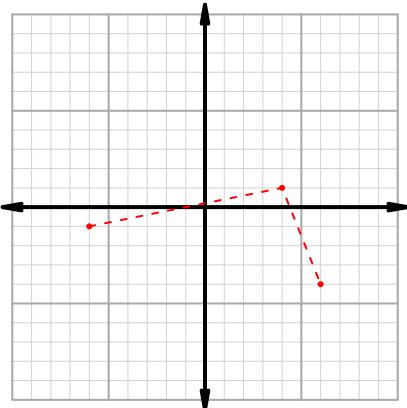
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

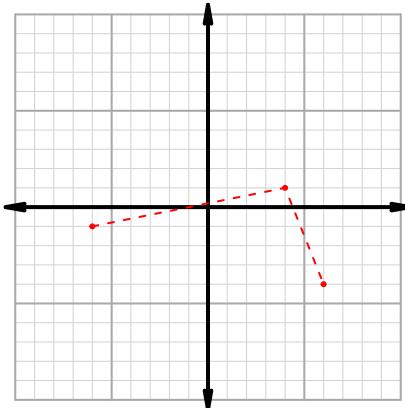
Intervals, Transformations, and Slope Practice (version 21)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

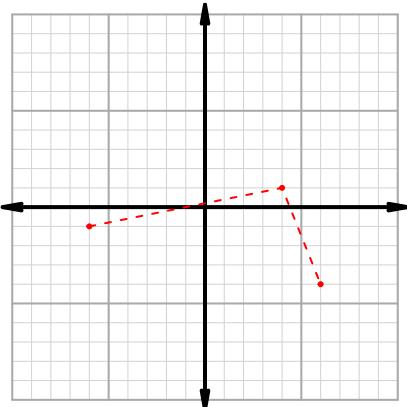
$$y = f(x+2)$$



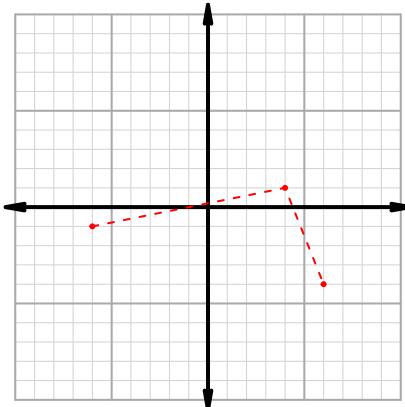
$$y = 2 \cdot f(x)$$



$$y = f(x) + 2$$



$$y = f(-2 \cdot x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 46$ and $x_2 = 86$. Express your answer as a reduced fraction.

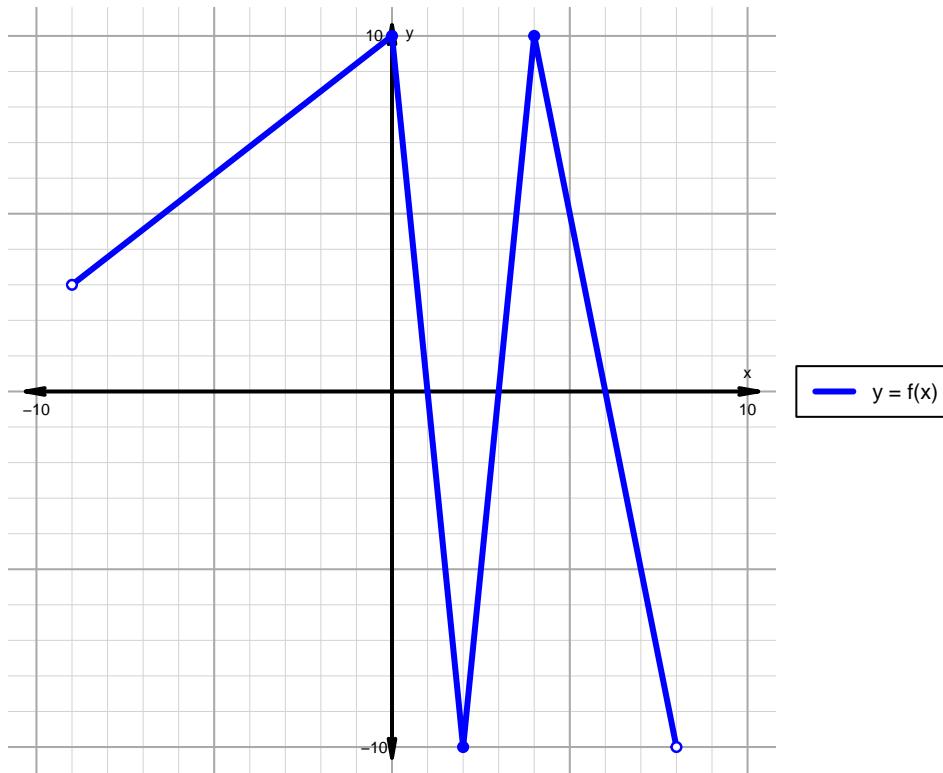
x	$g(x)$
46	81
57	46
81	86
86	57

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 22)

1. The function f is graphed below.



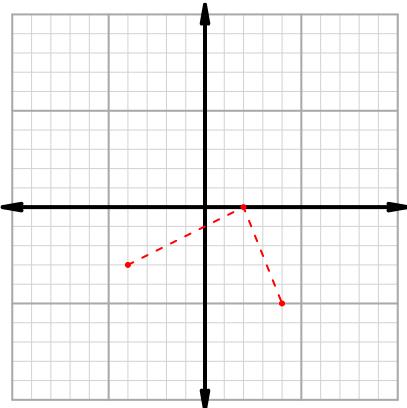
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

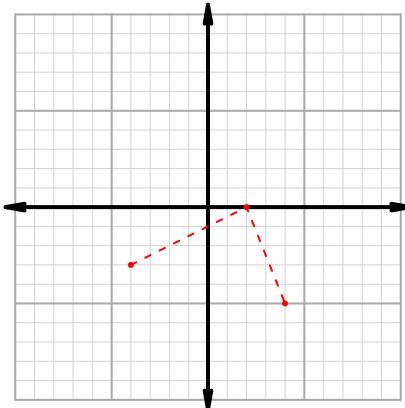
Intervals, Transformations, and Slope Practice (version 22)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

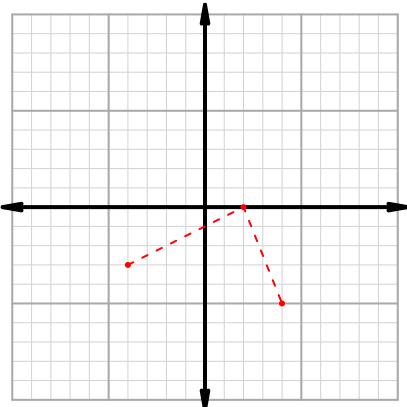
$$y = f(x+2)$$



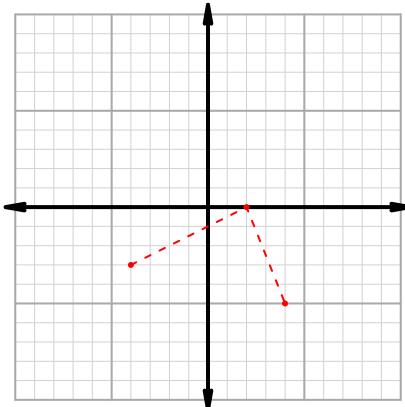
$$y = f(-2 \cdot x)$$



$$y = f(x) - 2$$



$$y = -2 \cdot f(x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 69$ and $x_2 = 89$. Express your answer as a reduced fraction.

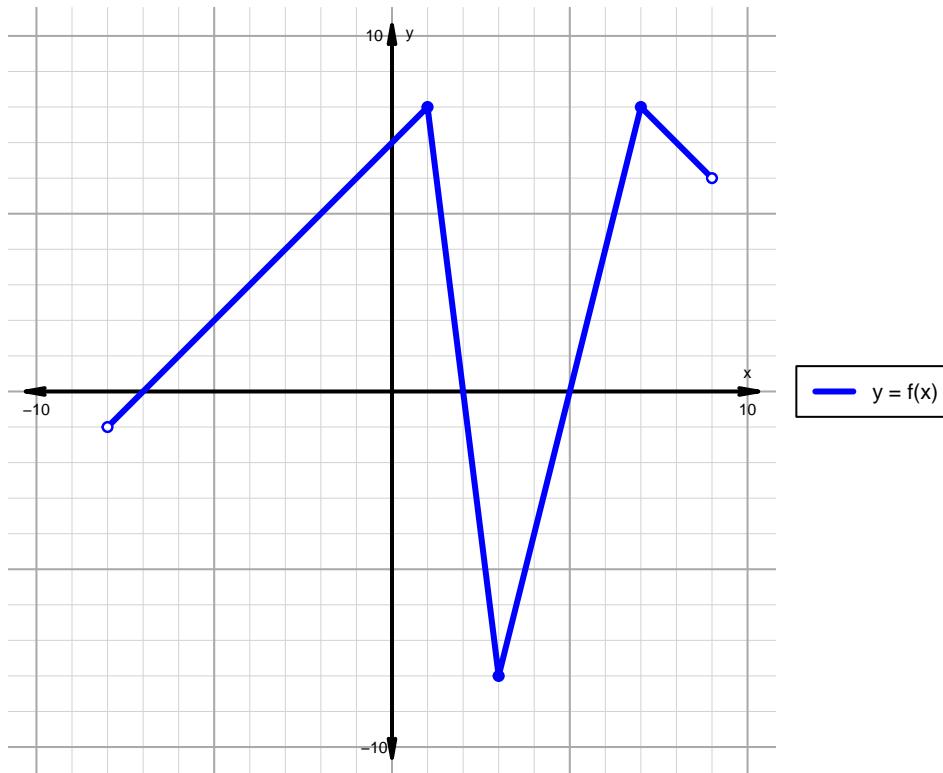
x	$g(x)$
52	89
69	52
77	69
89	77

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 23)

1. The function f is graphed below.



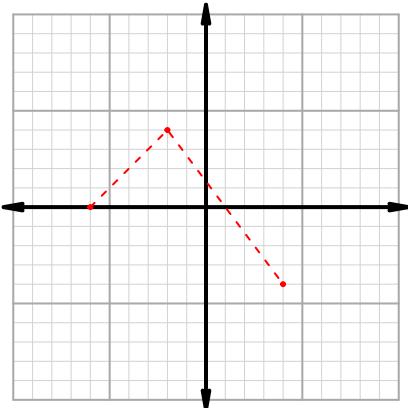
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

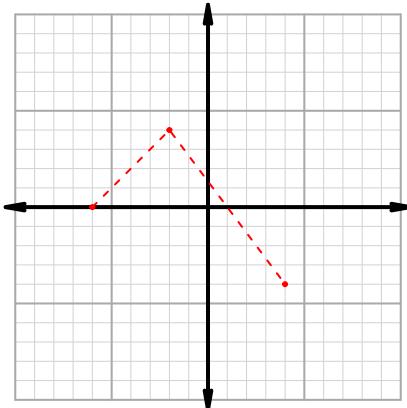
Intervals, Transformations, and Slope Practice (version 23)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

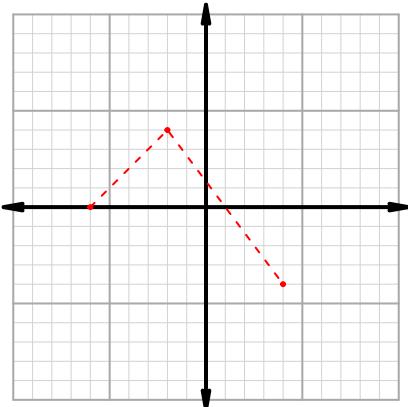
$$y = f(x+2)$$



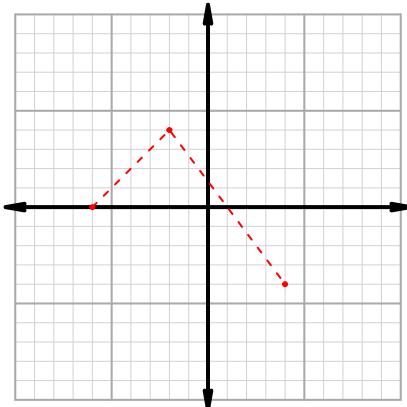
$$y = f(x) - 2$$



$$y = -2 \cdot f(x)$$



$$y = f(2 \cdot x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 55$ and $x_2 = 75$. Express your answer as a reduced fraction.

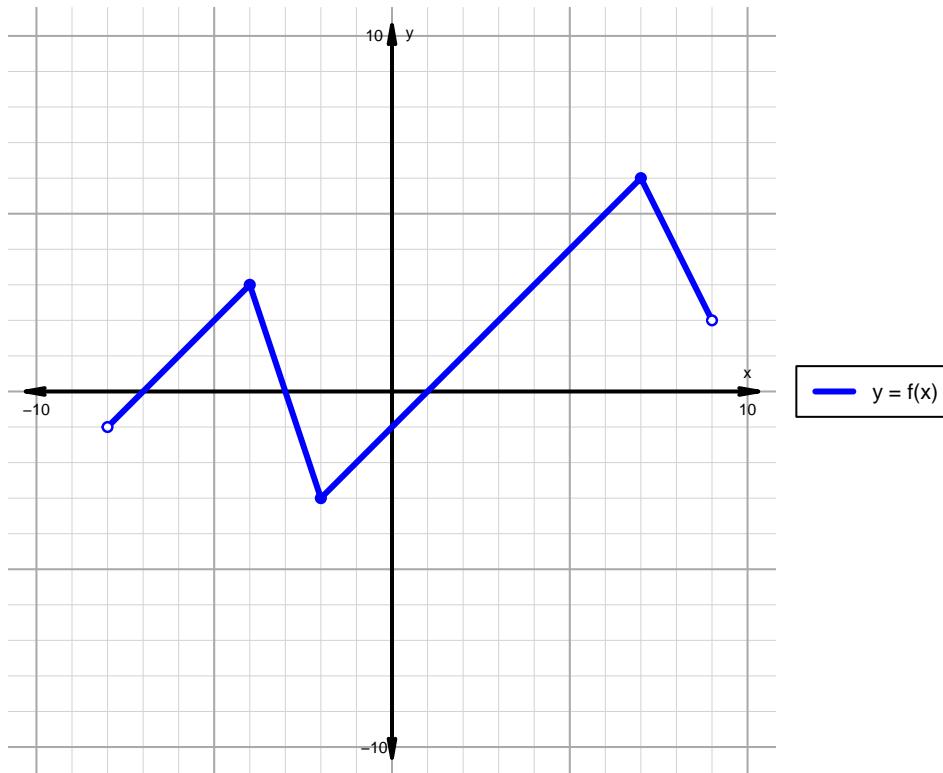
x	$g(x)$
55	81
75	86
81	75
86	55

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 24)

1. The function f is graphed below.



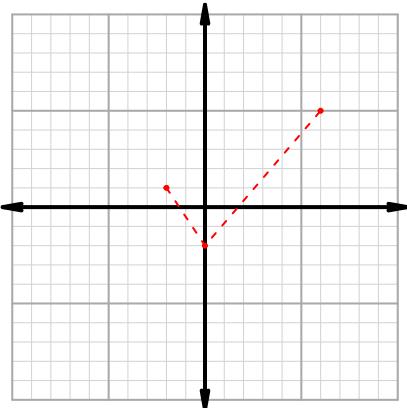
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

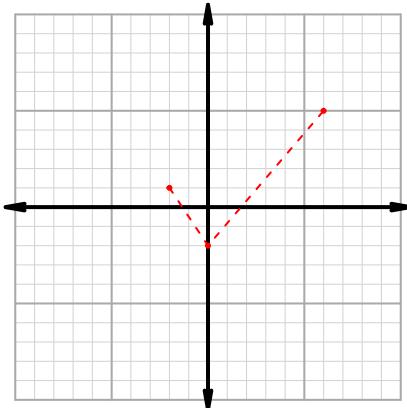
Intervals, Transformations, and Slope Practice (version 24)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

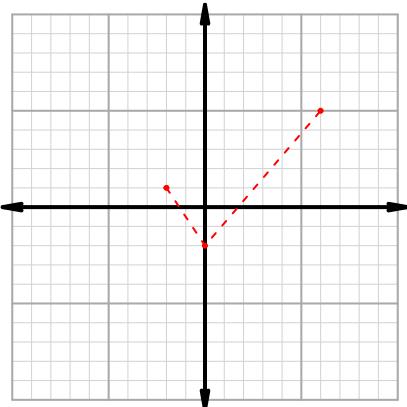
$$y = 2 \cdot f(x)$$



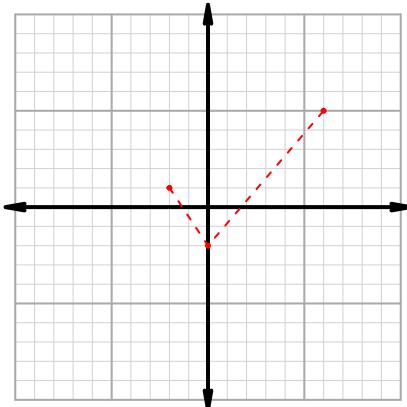
$$y = f(x) + 2$$



$$y = f(x - 2)$$



$$y = f(2 \cdot x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 36$ and $x_2 = 50$. Express your answer as a reduced fraction.

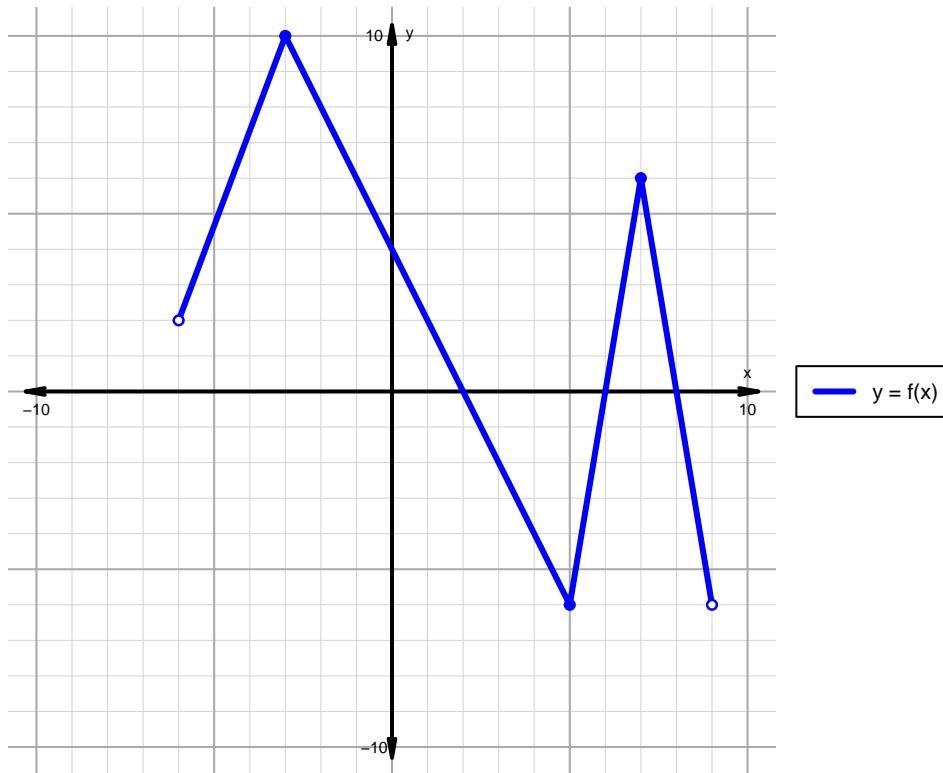
x	$g(x)$
36	51
50	61
51	50
61	36

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 25)

1. The function f is graphed below.



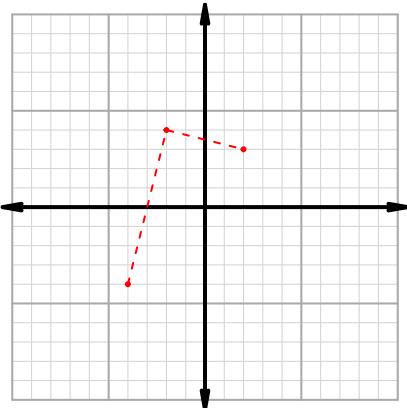
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

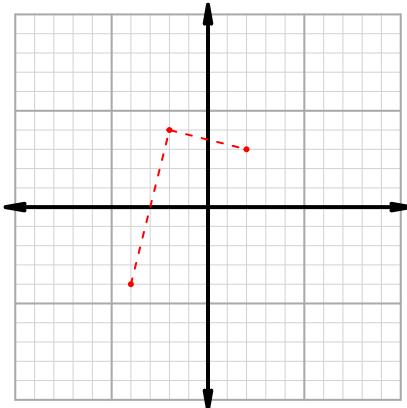
Intervals, Transformations, and Slope Practice (version 25)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

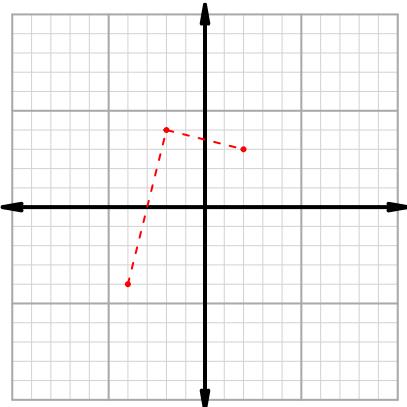
$$y = -2 \cdot f(x)$$



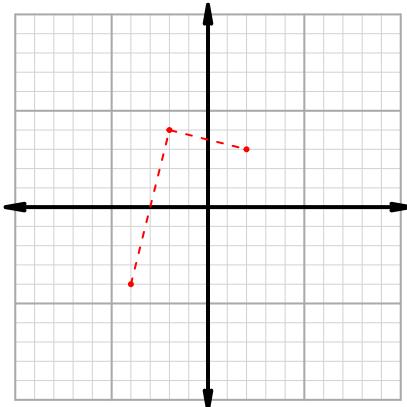
$$y = f(x) + 2$$



$$y = f(x+2)$$



$$y = f(-2 \cdot x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 28$ and $x_2 = 43$. Express your answer as a reduced fraction.

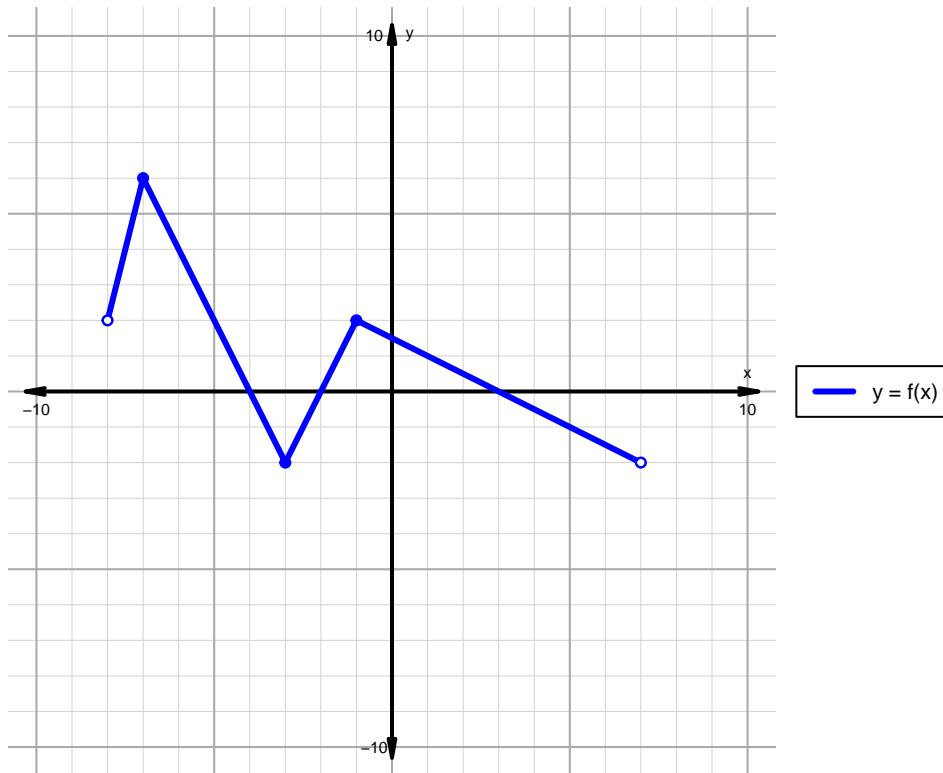
x	$g(x)$
28	50
43	44
44	28
50	43

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 26)

1. The function f is graphed below.



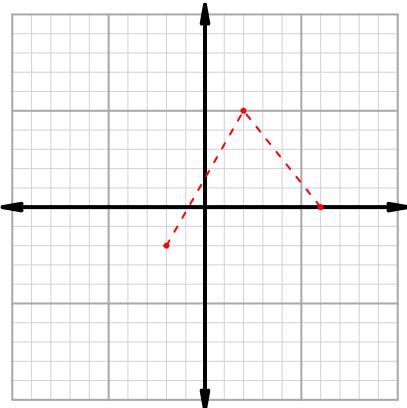
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

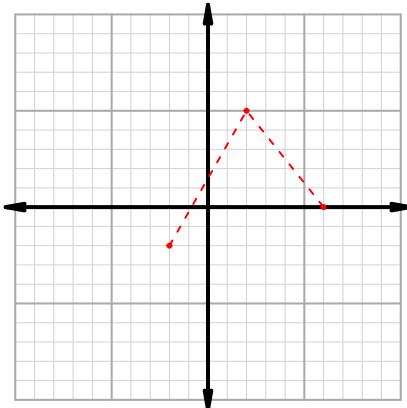
Intervals, Transformations, and Slope Practice (version 26)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

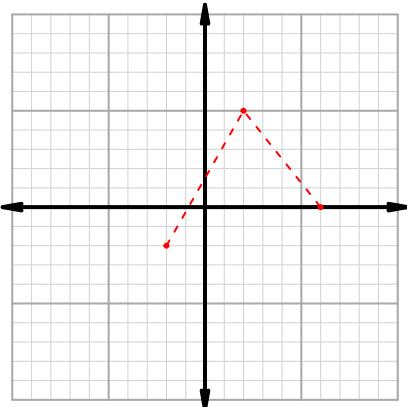
$$y = f(x+2)$$



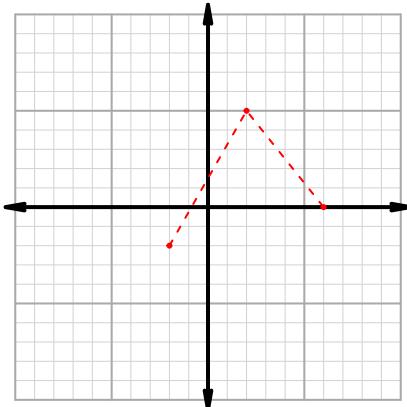
$$y = f(x) + 2$$



$$y = f(2 \cdot x)$$



$$y = 2 \cdot f(x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 34$ and $x_2 = 70$. Express your answer as a reduced fraction.

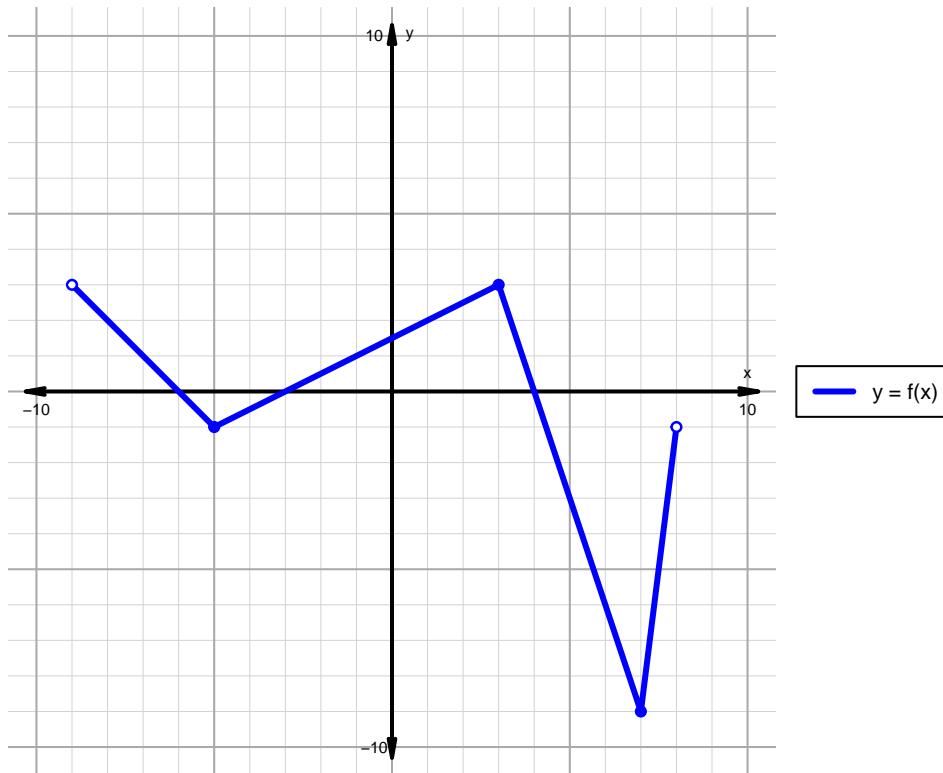
x	$g(x)$
34	49
49	70
70	81
81	34

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 27)

1. The function f is graphed below.



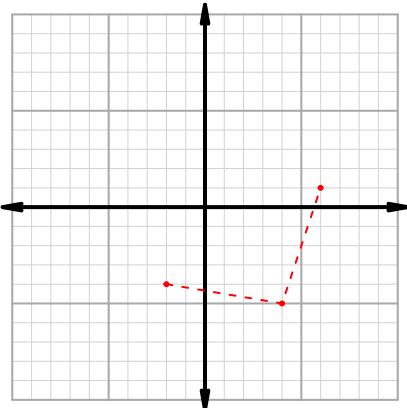
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

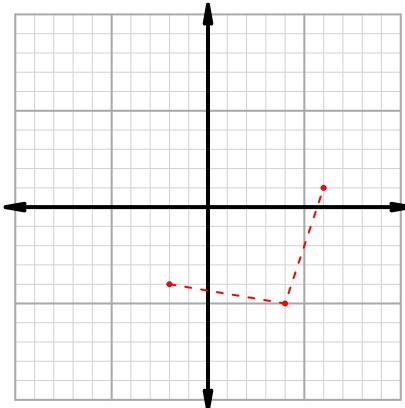
Intervals, Transformations, and Slope Practice (version 27)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

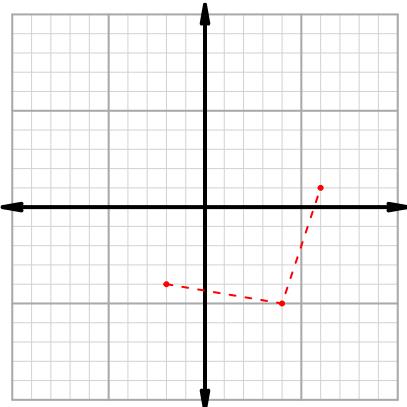
$$y = 2 \cdot f(x)$$



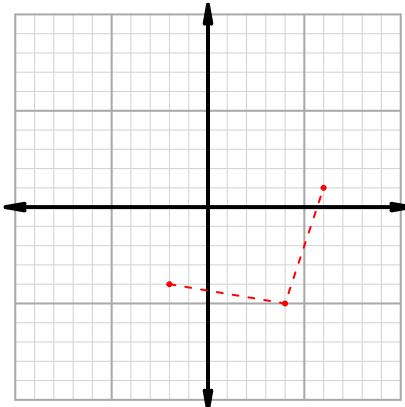
$$y = f(2 \cdot x)$$



$$y = f(x + 2)$$



$$y = f(x) - 2$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 34$ and $x_2 = 46$. Express your answer as a reduced fraction.

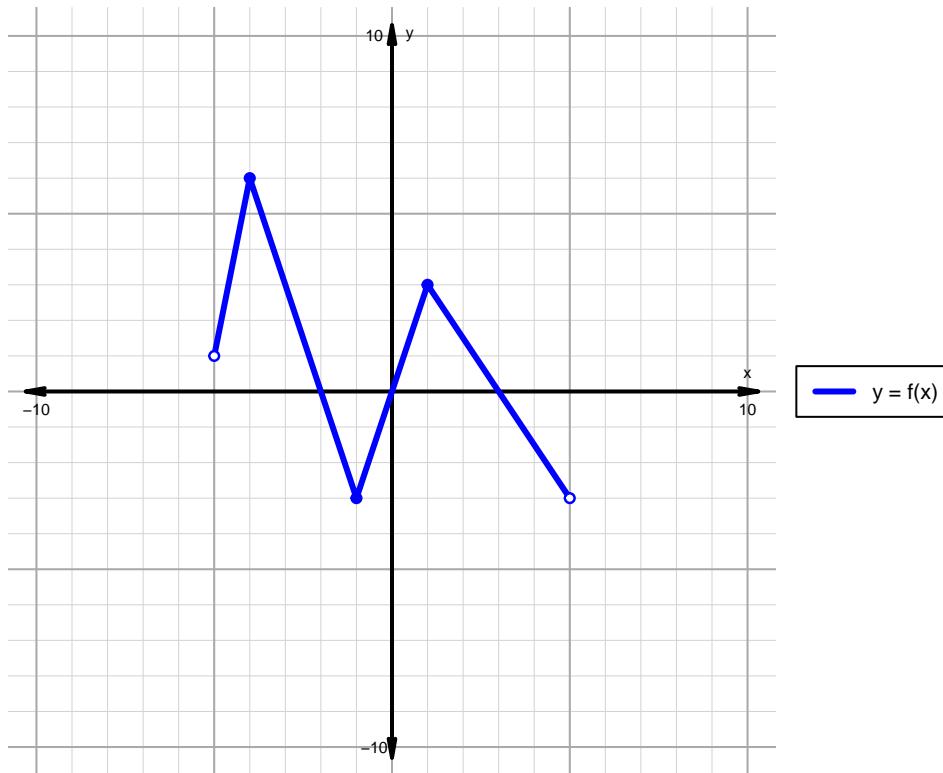
x	$g(x)$
34	85
46	71
71	34
85	46

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 28)

1. The function f is graphed below.



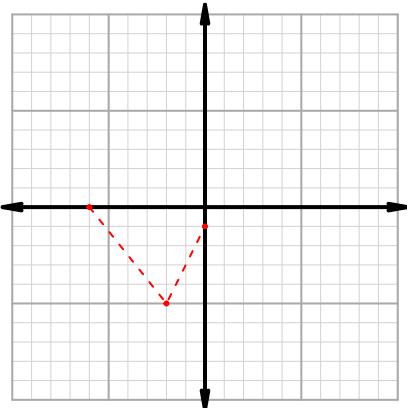
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

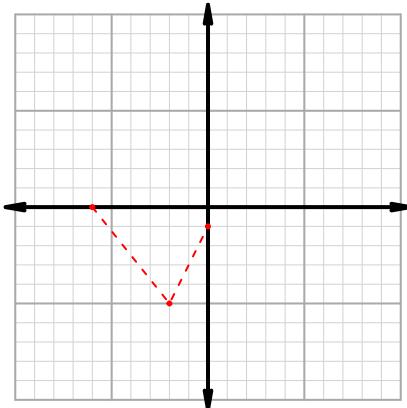
Intervals, Transformations, and Slope Practice (version 28)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

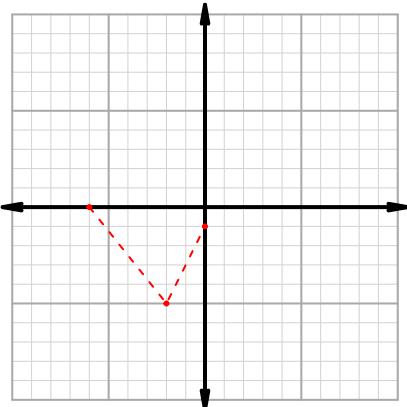
$$y = f(-2 \cdot x)$$



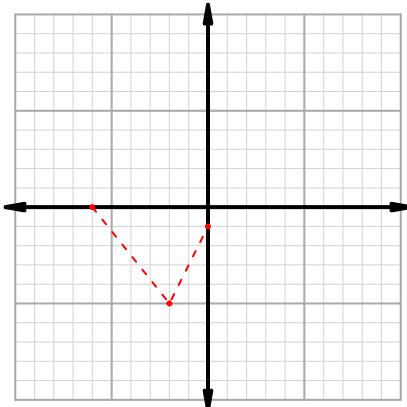
$$y = 2 \cdot f(x)$$



$$y = f(x) - 2$$



$$y = f(x - 2)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 28$ and $x_2 = 40$. Express your answer as a reduced fraction.

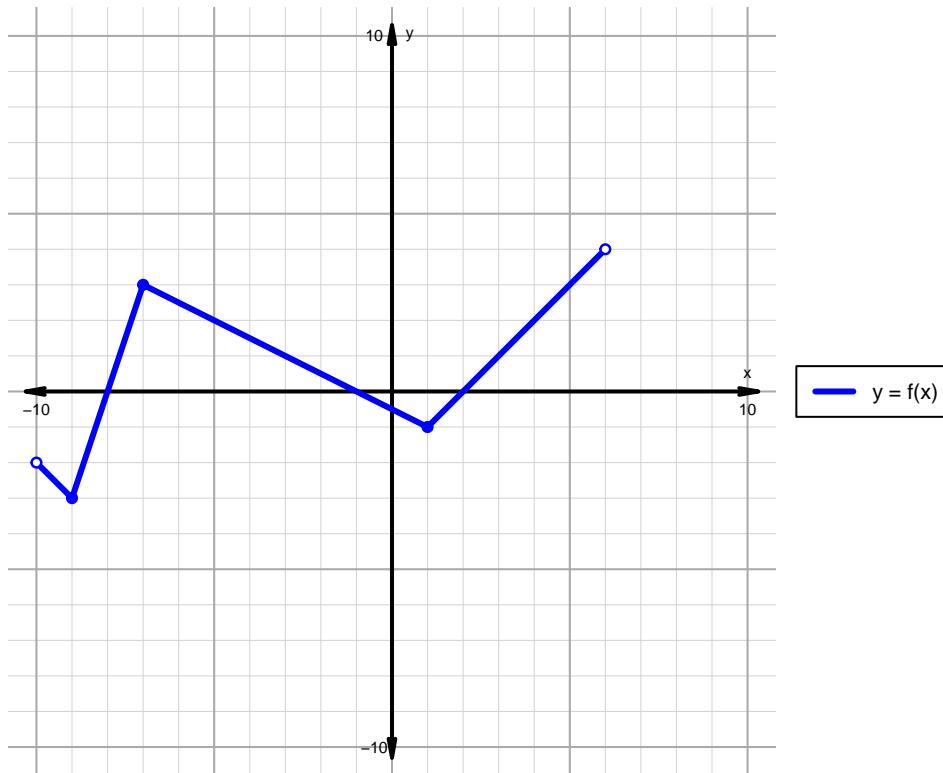
x	$g(x)$
28	39
33	28
39	40
40	33

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 29)

1. The function f is graphed below.



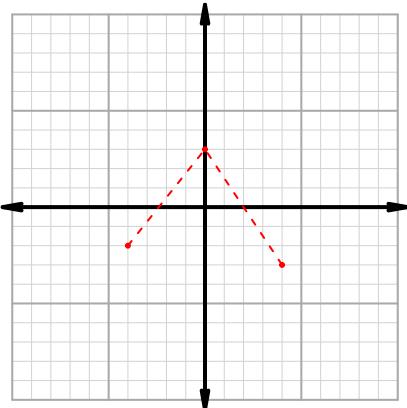
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

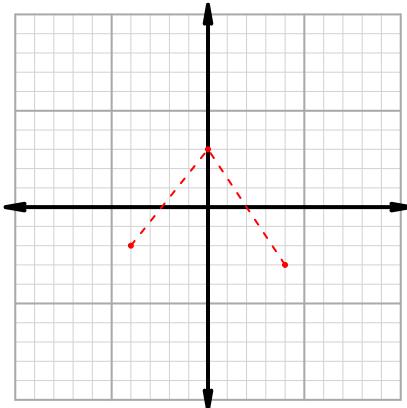
Intervals, Transformations, and Slope Practice (version 29)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

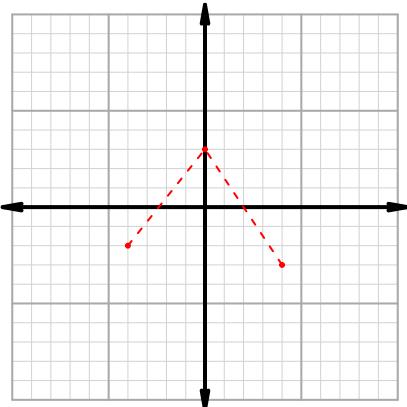
$$y = f(-2 \cdot x)$$



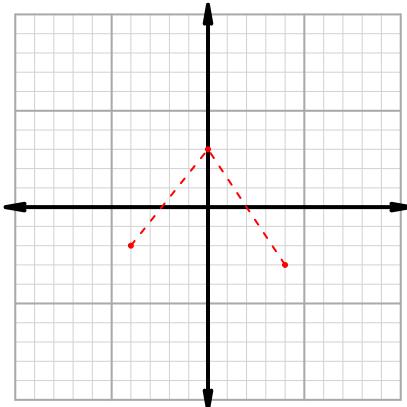
$$y = f(x + 2)$$



$$y = 2 \cdot f(x)$$



$$y = f(x) - 2$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 29$ and $x_2 = 57$. Express your answer as a reduced fraction.

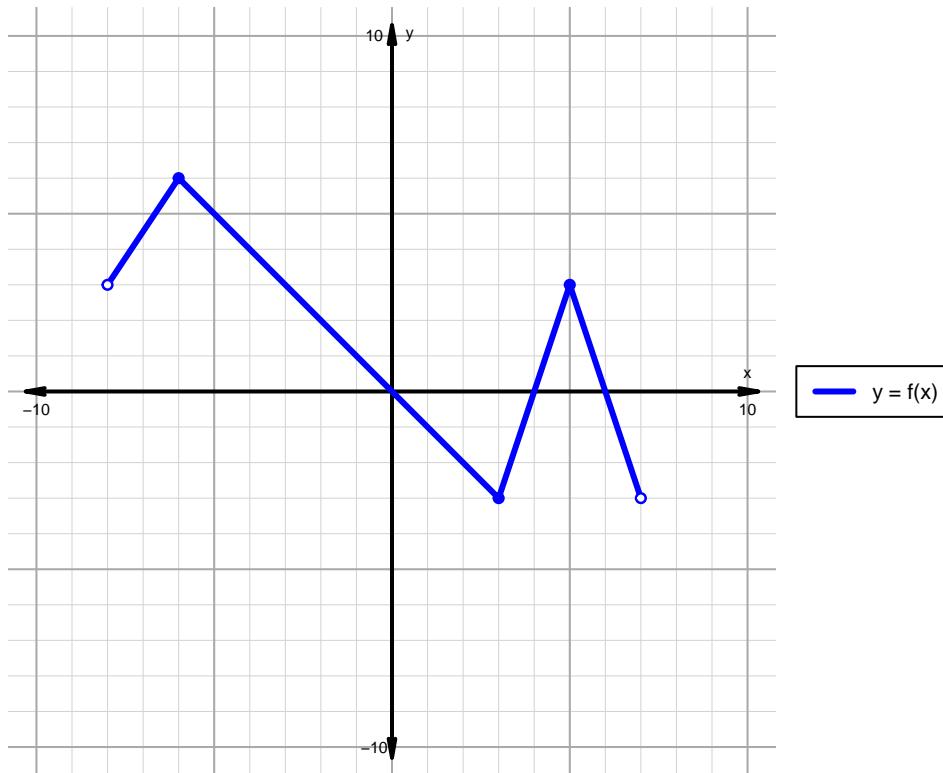
x	$g(x)$
14	29
29	77
57	14
77	57

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 30)

1. The function f is graphed below.



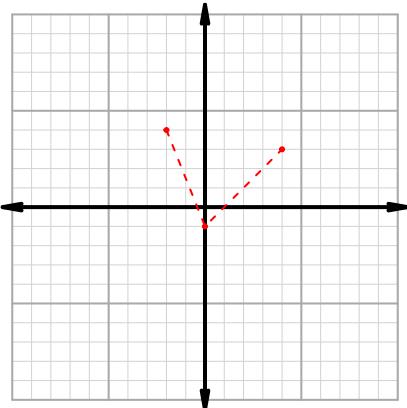
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

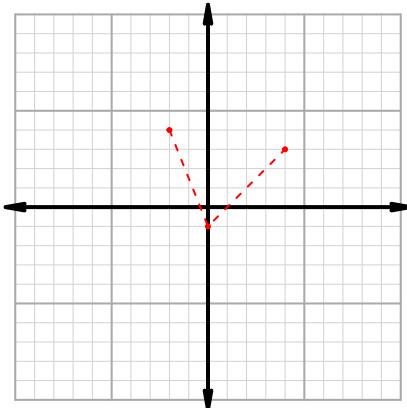
Intervals, Transformations, and Slope Practice (version 30)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

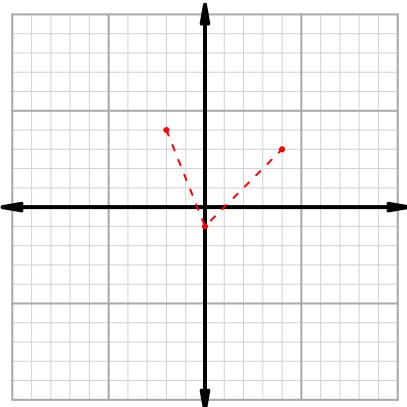
$$y = f(x+2)$$



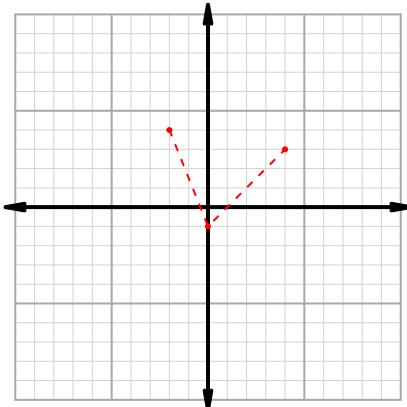
$$y = f(x) + 2$$



$$y = f(2 \cdot x)$$



$$y = -2 \cdot f(x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 21$ and $x_2 = 33$. Express your answer as a reduced fraction.

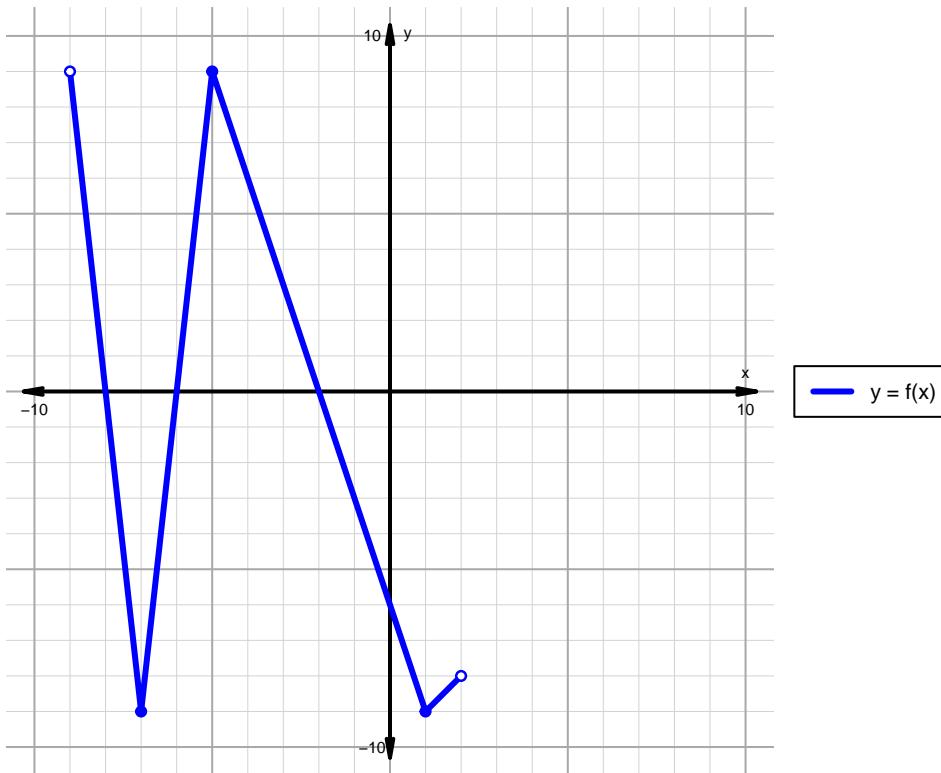
x	$g(x)$
21	49
33	64
49	33
64	21

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 31)

1. The function f is graphed below.



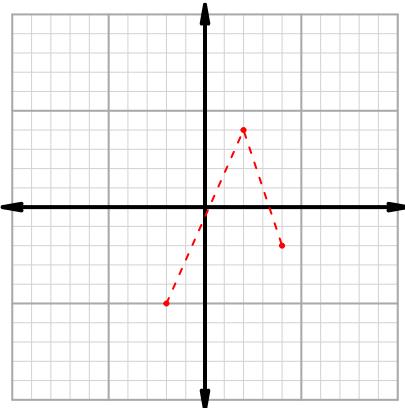
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

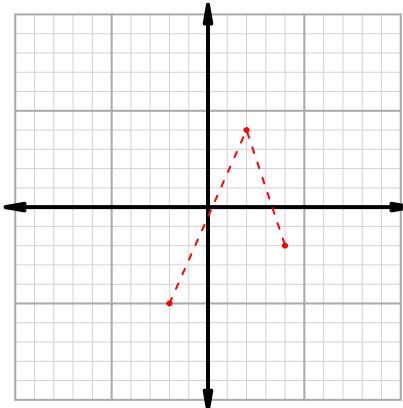
Intervals, Transformations, and Slope Practice (version 31)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

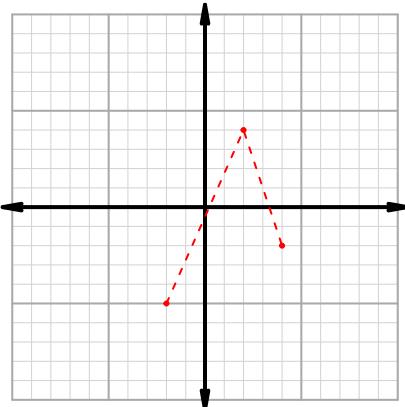
$$y = 2 \cdot f(x)$$



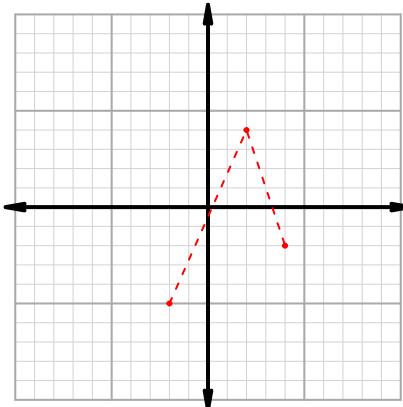
$$y = f(x - 2)$$



$$y = f(2 \cdot x)$$



$$y = f(x) + 2$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 14$ and $x_2 = 39$. Express your answer as a reduced fraction.

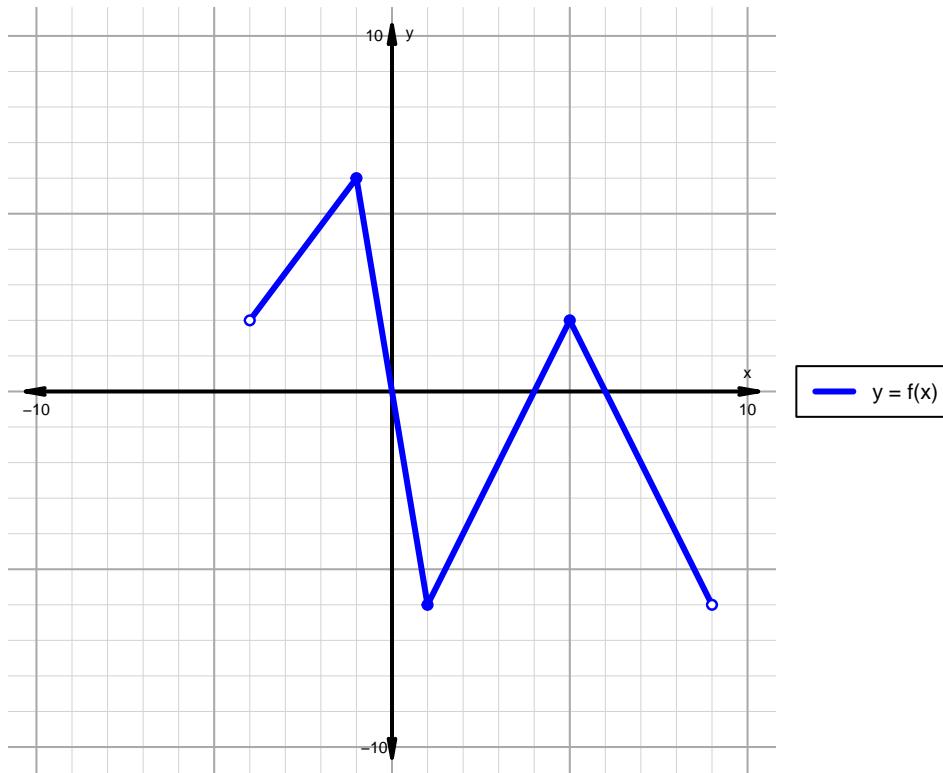
x	$g(x)$
14	55
20	14
39	20
55	39

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 32)

1. The function f is graphed below.



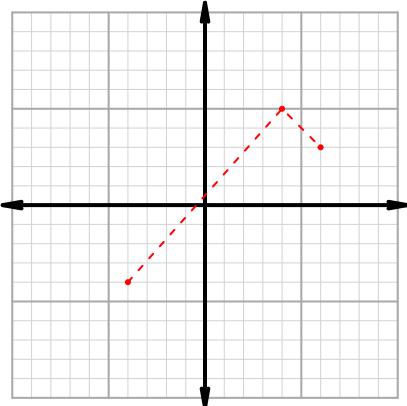
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

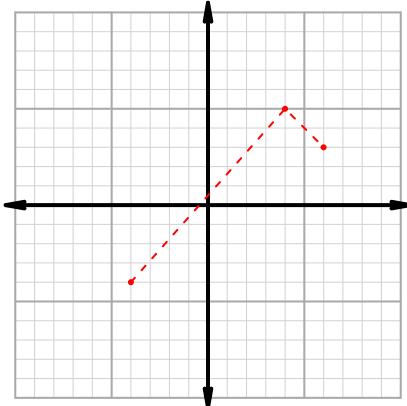
Intervals, Transformations, and Slope Practice (version 32)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

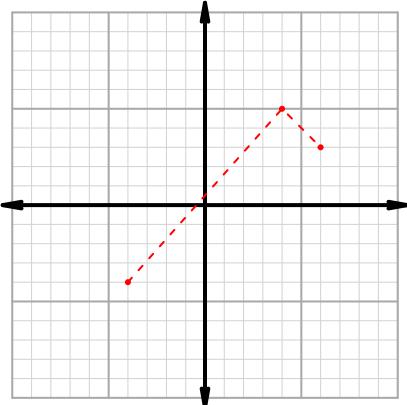
$$y = -2 \cdot f(x)$$



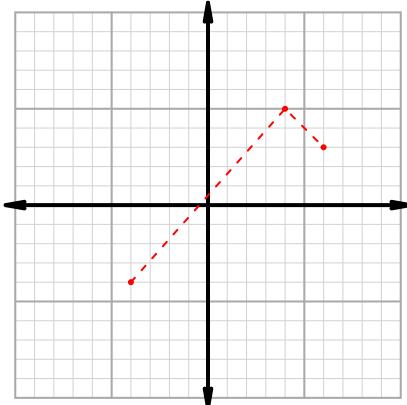
$$y = f(-2 \cdot x)$$



$$y = f(x) - 2$$



$$y = f(x - 2)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 48$ and $x_2 = 93$. Express your answer as a reduced fraction.

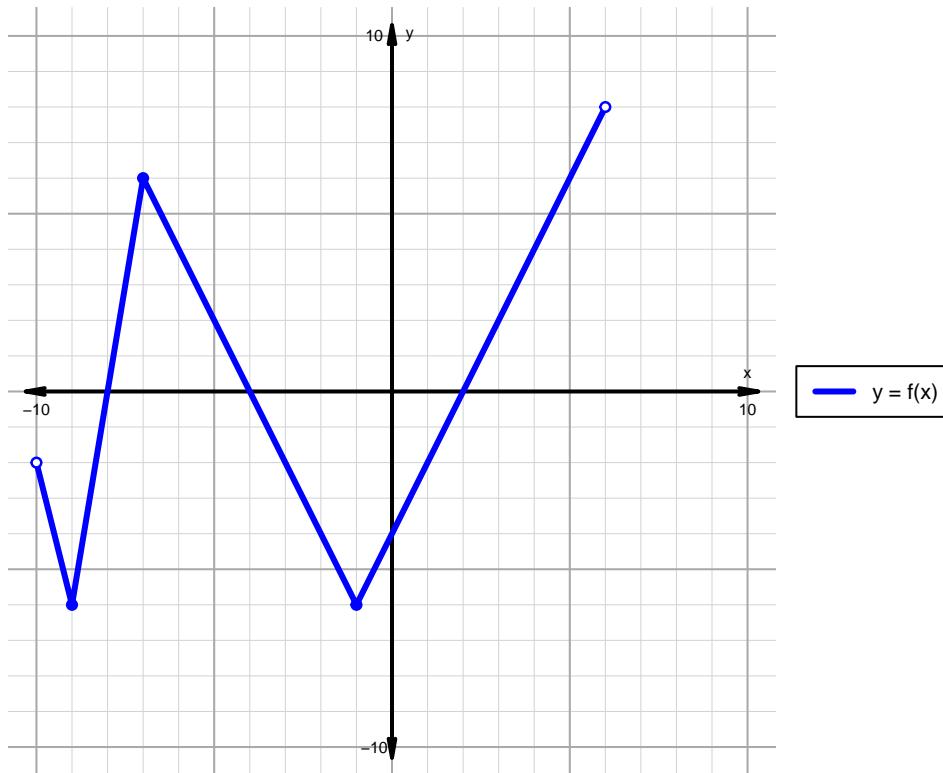
x	$g(x)$
22	93
48	22
85	48
93	85

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 33)

1. The function f is graphed below.



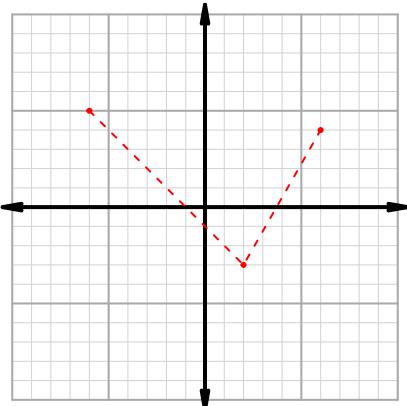
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

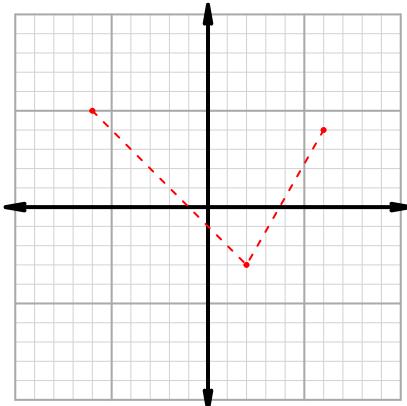
Intervals, Transformations, and Slope Practice (version 33)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

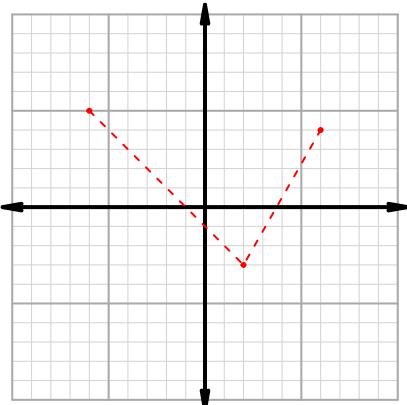
$$y = -2 \cdot f(x)$$



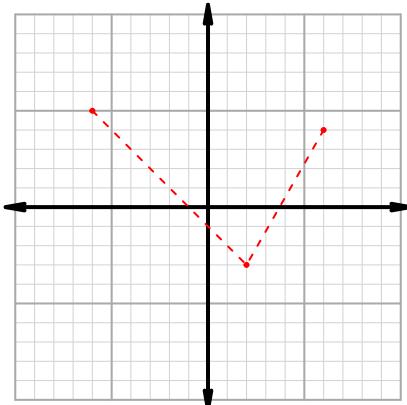
$$y = f(x - 2)$$



$$y = f(-2 \cdot x)$$



$$y = f(x) - 2$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 22$ and $x_2 = 49$. Express your answer as a reduced fraction.

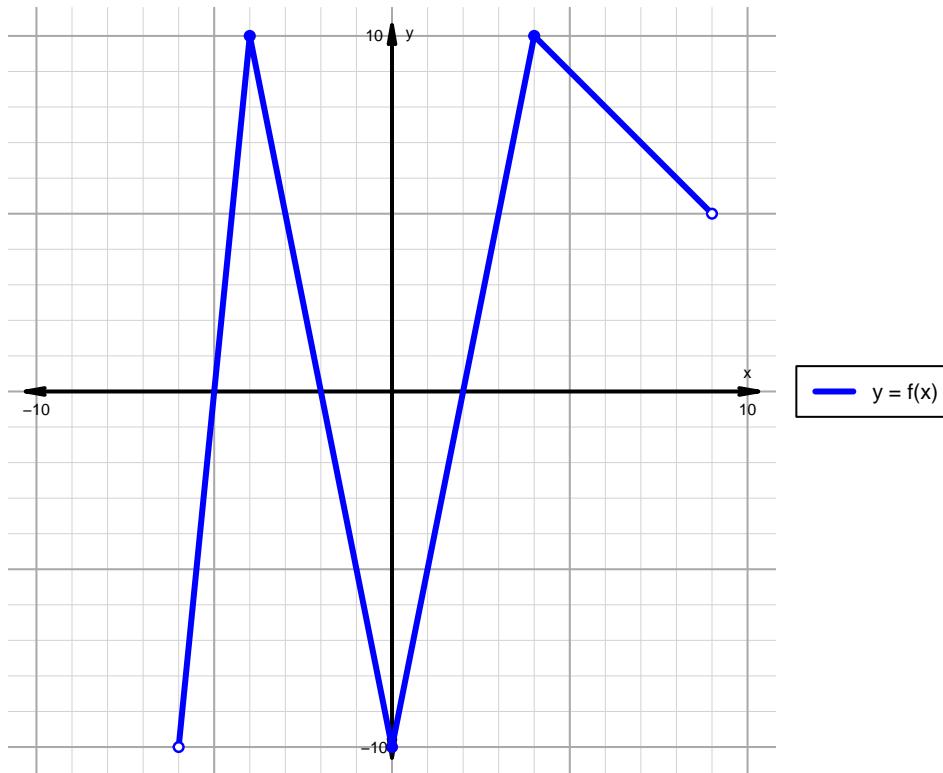
x	$g(x)$
22	40
40	49
49	85
85	22

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 34)

1. The function f is graphed below.



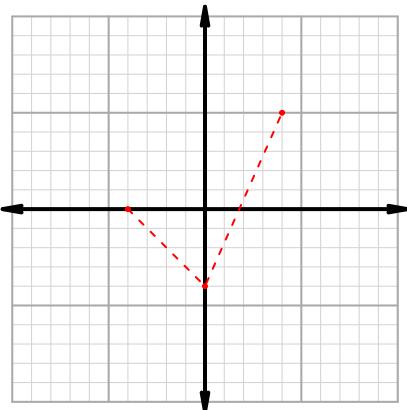
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

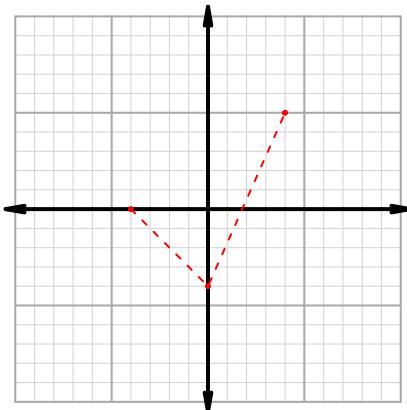
Intervals, Transformations, and Slope Practice (version 34)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

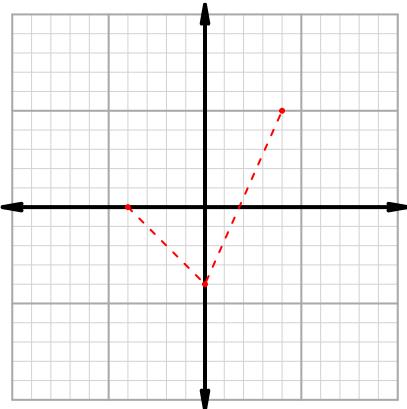
$$y = f(x) - 2$$



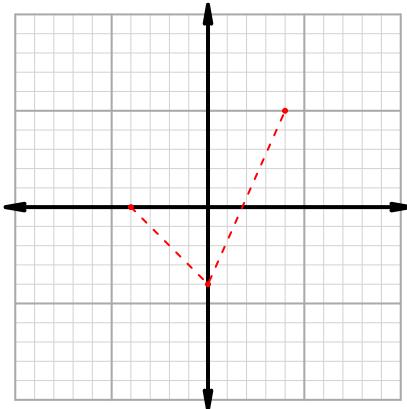
$$y = 2 \cdot f(x)$$



$$y = f(x - 2)$$



$$y = f(2 \cdot x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 16$ and $x_2 = 51$. Express your answer as a reduced fraction.

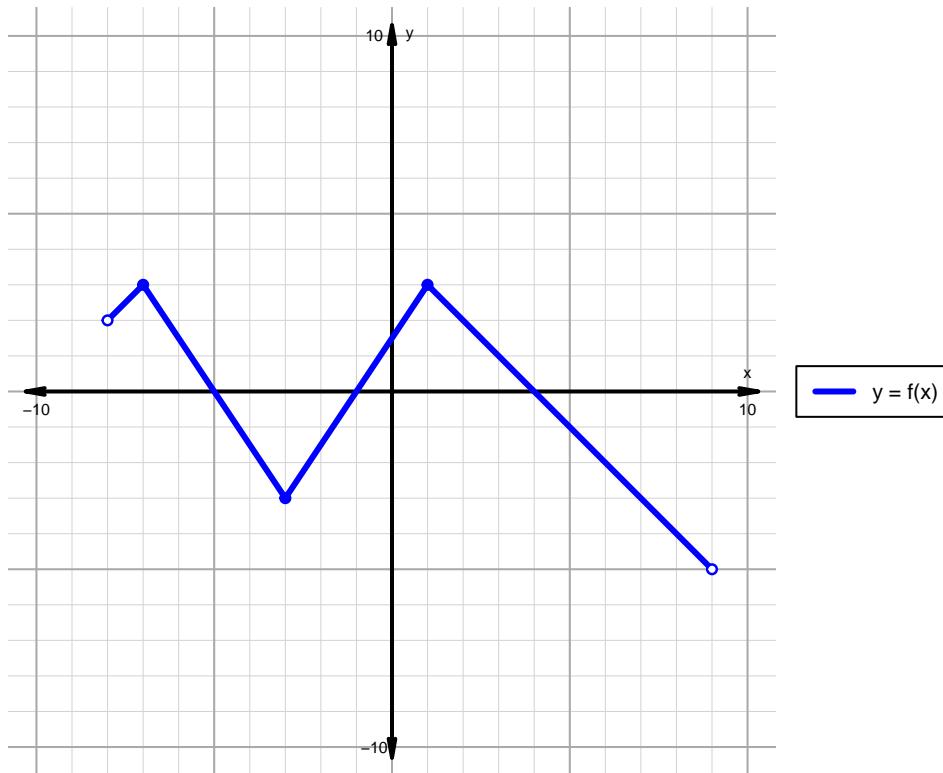
x	$g(x)$
16	40
40	51
51	96
96	16

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 35)

1. The function f is graphed below.



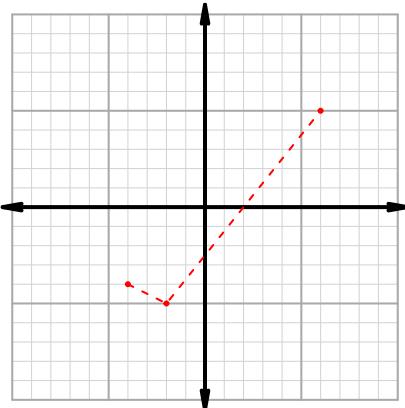
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

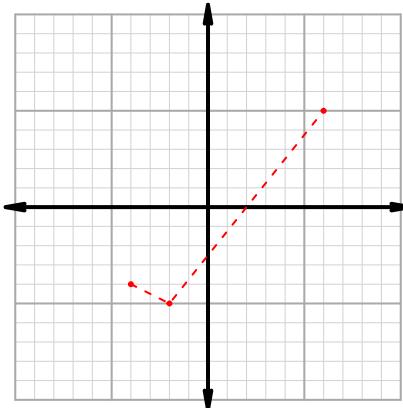
Intervals, Transformations, and Slope Practice (version 35)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

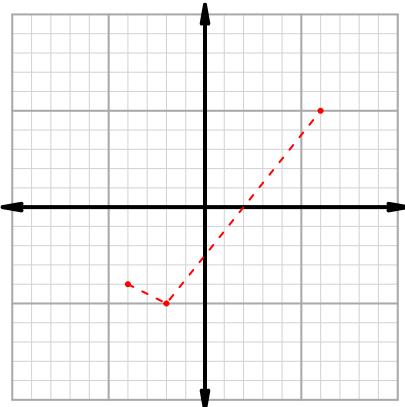
$$y = f(2 \cdot x)$$



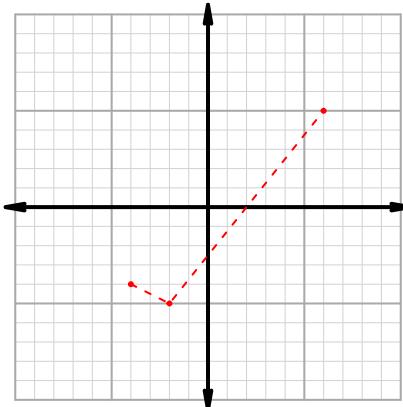
$$y = f(x + 2)$$



$$y = f(x) - 2$$



$$y = 2 \cdot f(x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 32$ and $x_2 = 40$. Express your answer as a reduced fraction.

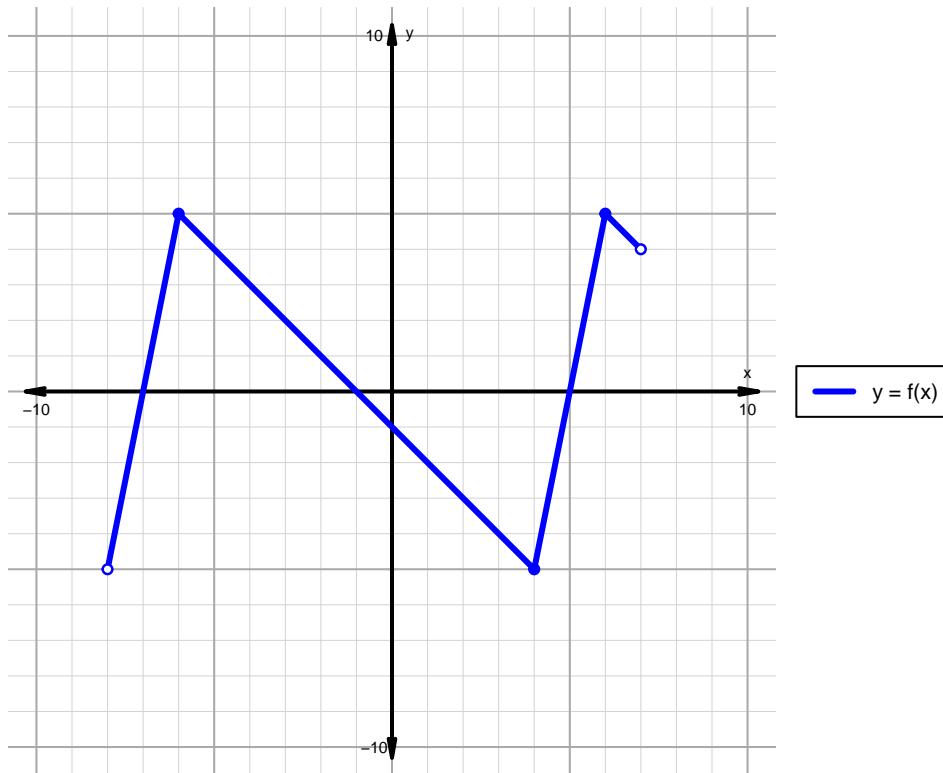
x	$g(x)$
32	36
36	40
40	48
48	32

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 36)

1. The function f is graphed below.



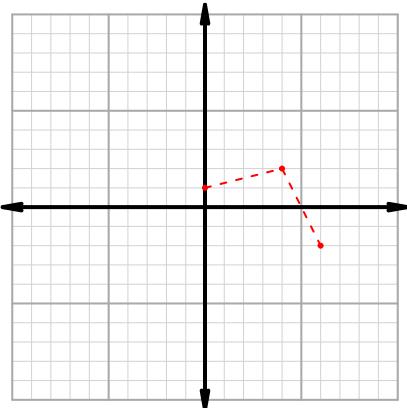
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

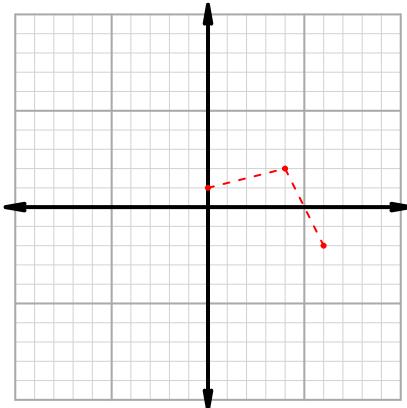
Intervals, Transformations, and Slope Practice (version 36)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

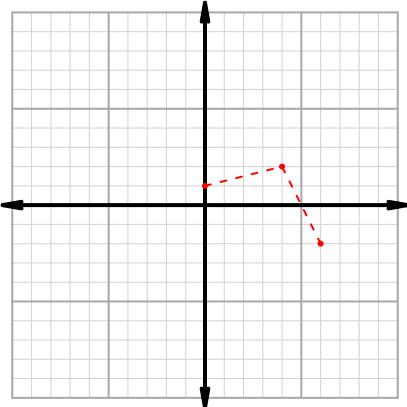
$$y = f(x) - 2$$



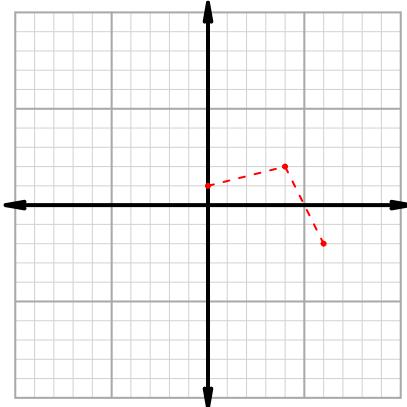
$$y = f(x + 2)$$



$$y = f(-2 \cdot x)$$



$$y = 2 \cdot f(x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 29$ and $x_2 = 53$. Express your answer as a reduced fraction.

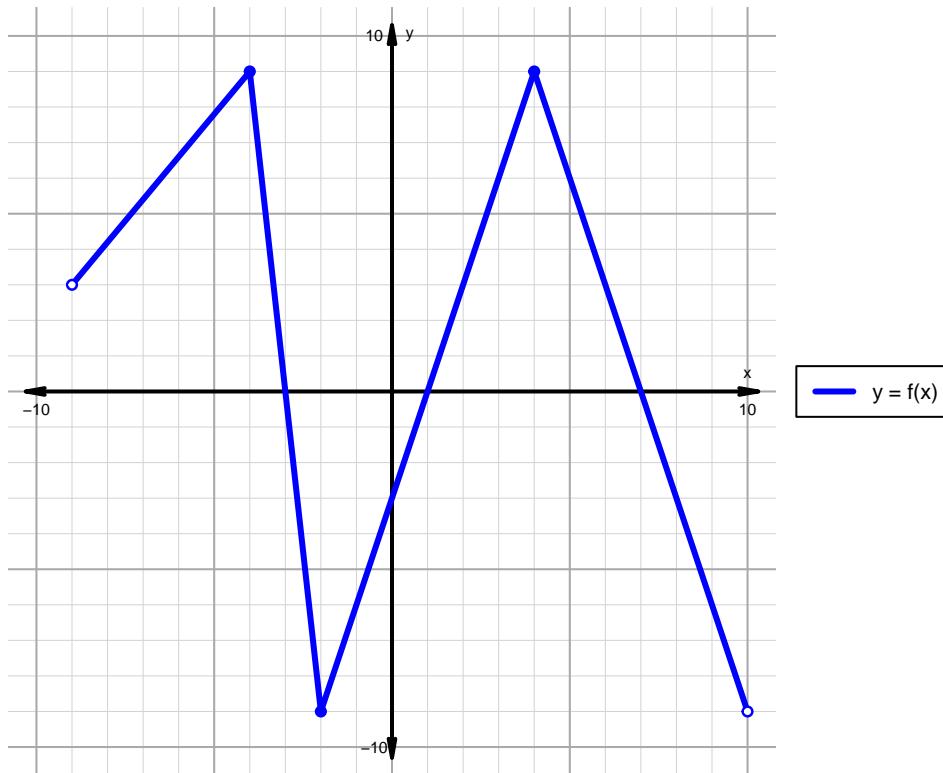
x	$g(x)$
29	49
49	53
53	81
81	29

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 37)

1. The function f is graphed below.



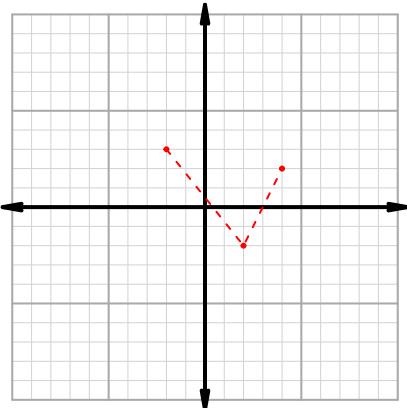
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

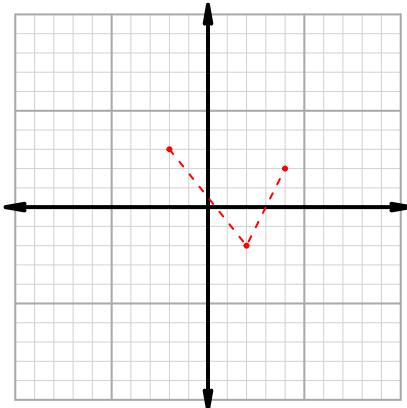
Intervals, Transformations, and Slope Practice (version 37)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

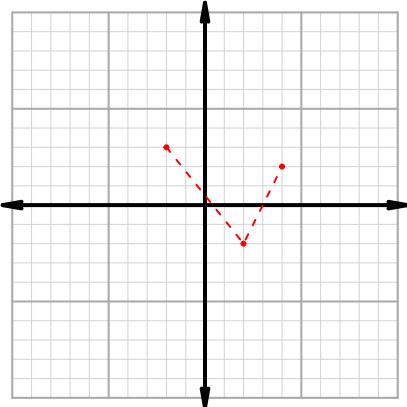
$$y = -2 \cdot f(x)$$



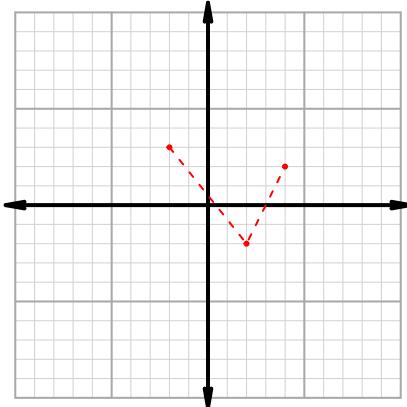
$$y = f(x - 2)$$



$$y = f(-2 \cdot x)$$



$$y = f(x) + 2$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 63$ and $x_2 = 78$. Express your answer as a reduced fraction.

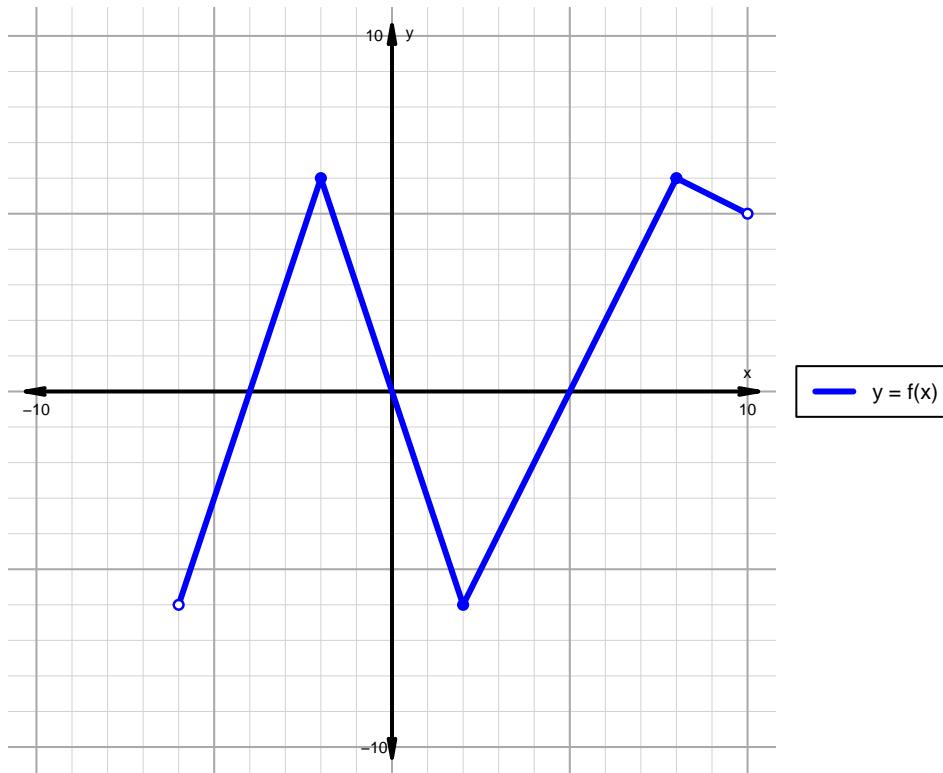
x	$g(x)$
63	89
78	95
89	78
95	63

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 38)

1. The function f is graphed below.



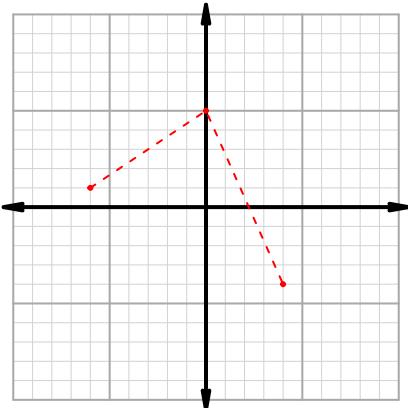
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

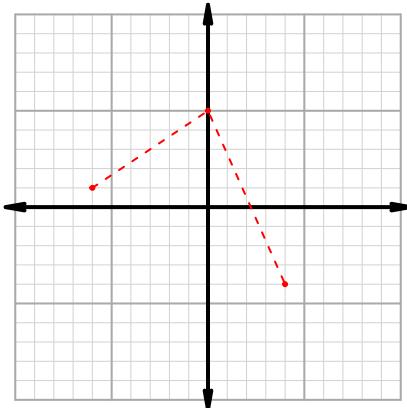
Intervals, Transformations, and Slope Practice (version 38)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

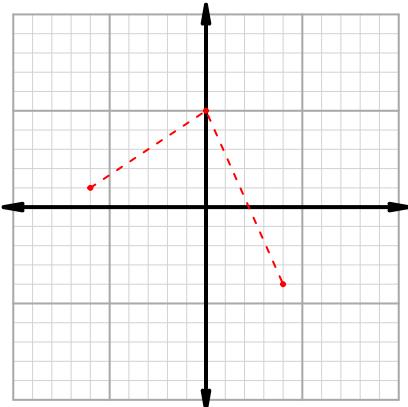
$$y = f(x) + 2$$



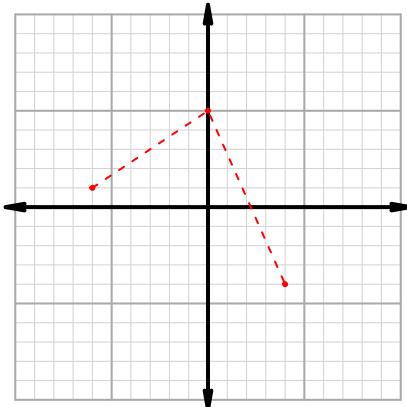
$$y = f(-2 \cdot x)$$



$$y = f(x - 2)$$



$$y = -2 \cdot f(x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 36$ and $x_2 = 76$. Express your answer as a reduced fraction.

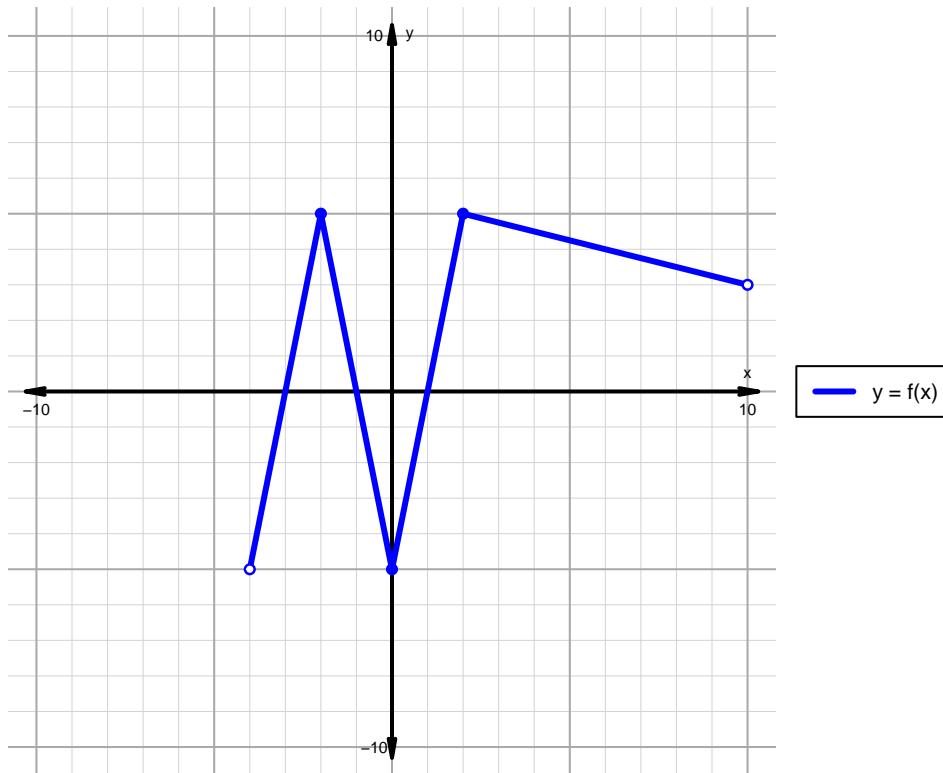
x	$g(x)$
36	88
43	36
76	43
88	76

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 39)

1. The function f is graphed below.



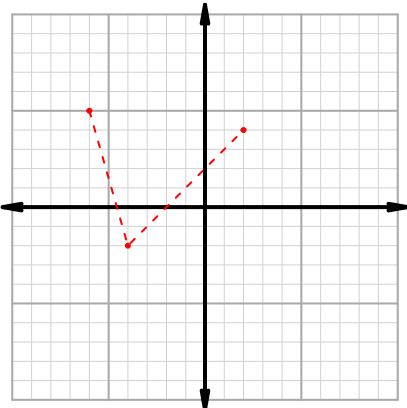
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

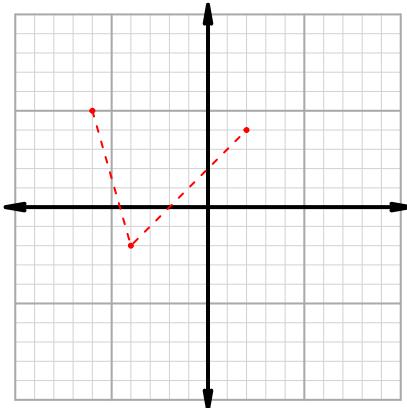
Intervals, Transformations, and Slope Practice (version 39)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

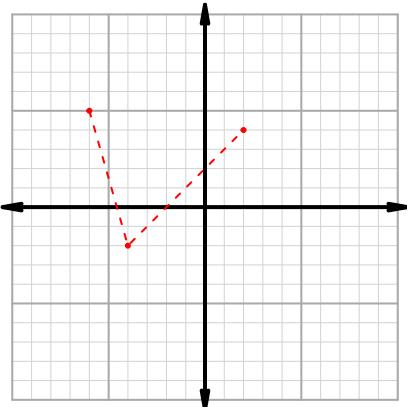
$$y = f(-2 \cdot x)$$



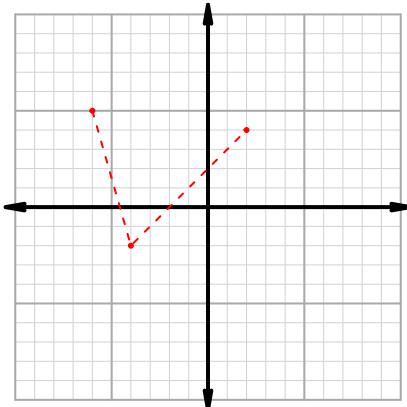
$$y = f(x) - 2$$



$$y = 2 \cdot f(x)$$



$$y = f(x + 2)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 33$ and $x_2 = 53$. Express your answer as a reduced fraction.

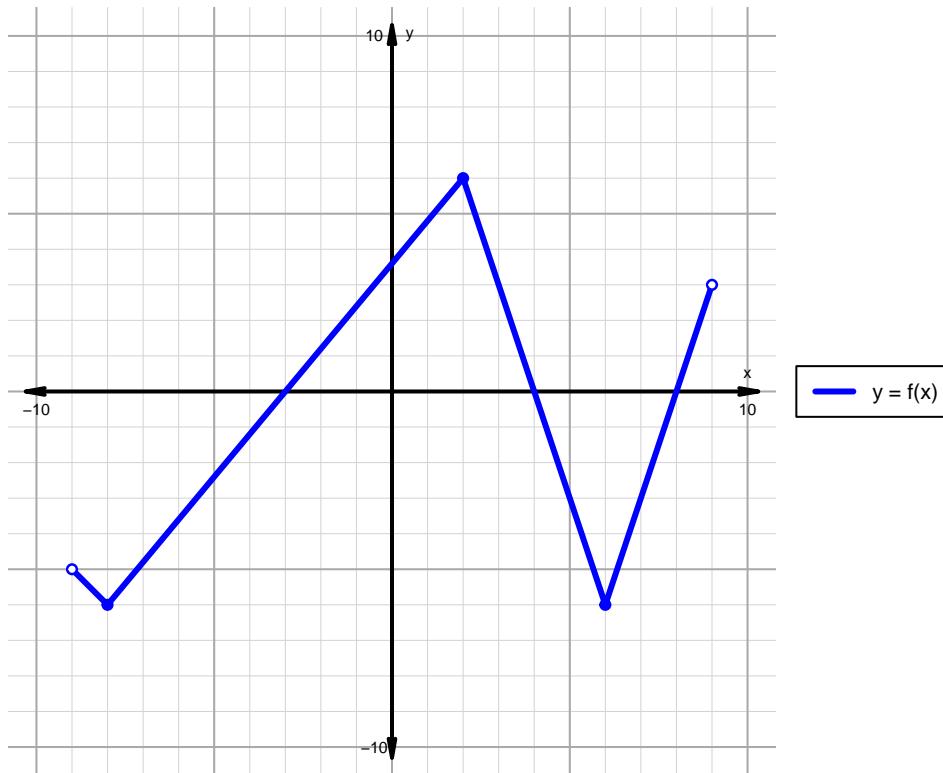
x	$g(x)$
33	87
53	91
87	53
91	33

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 40)

1. The function f is graphed below.



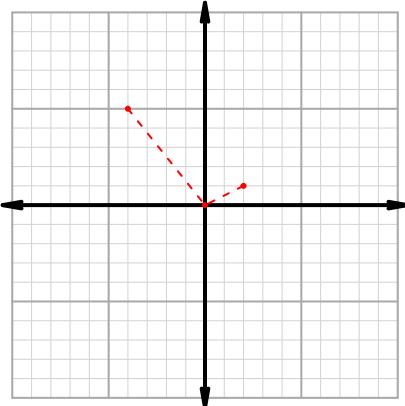
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

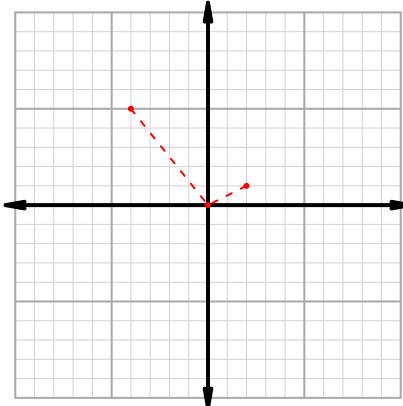
Intervals, Transformations, and Slope Practice (version 40)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

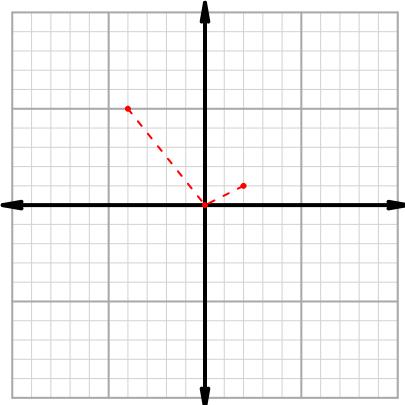
$$y = -2 \cdot f(x)$$



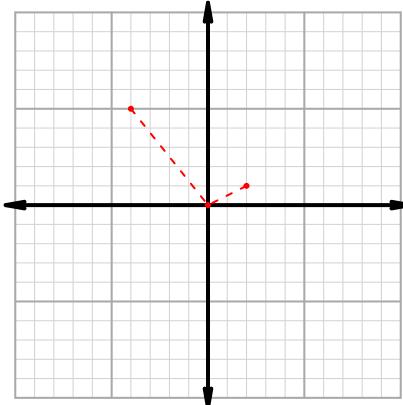
$$y = f(x) - 2$$



$$y = f(2 \cdot x)$$



$$y = f(x+2)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 46$ and $x_2 = 56$. Express your answer as a reduced fraction.

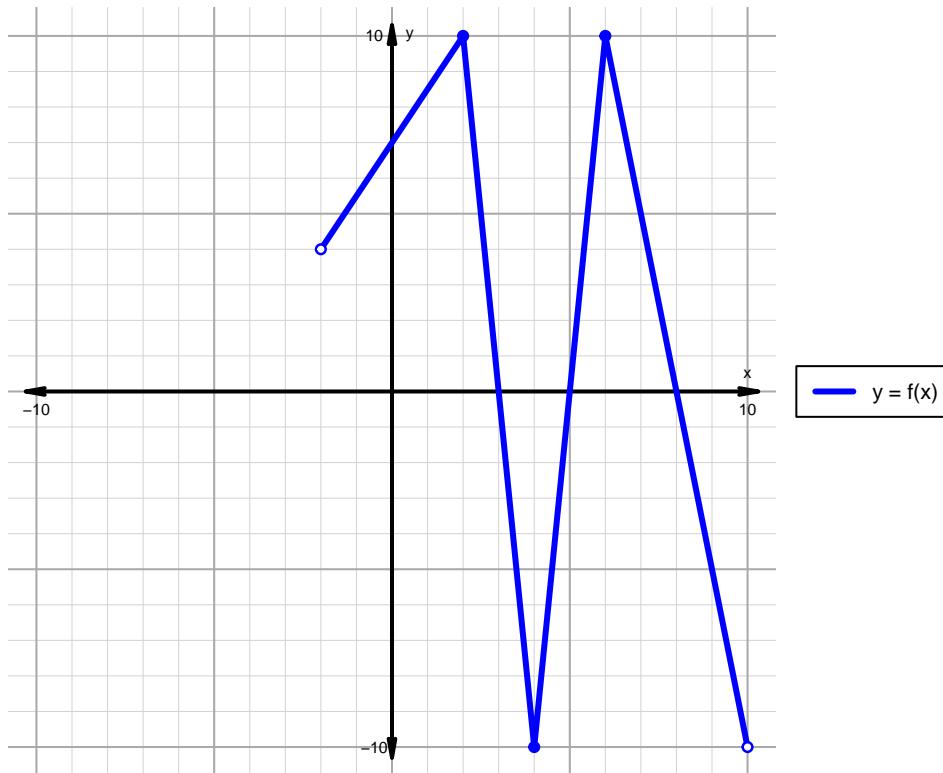
x	$g(x)$
9	46
25	56
46	25
56	9

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 41)

1. The function f is graphed below.



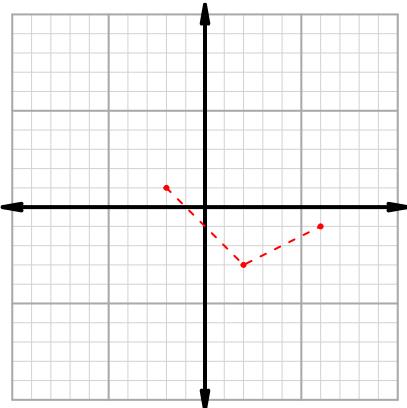
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

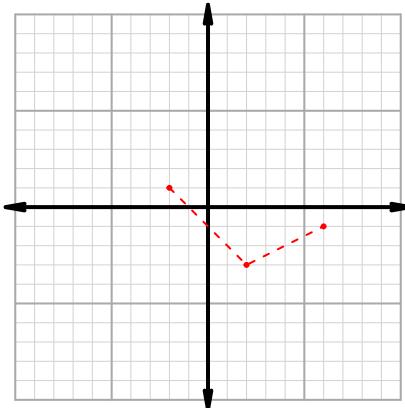
Intervals, Transformations, and Slope Practice (version 41)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

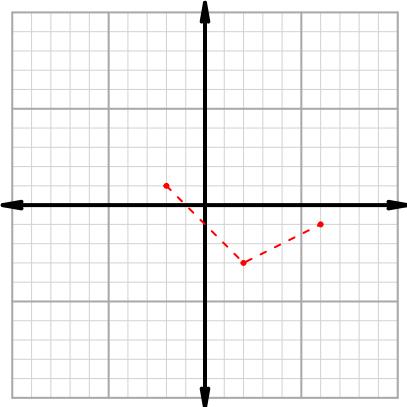
$$y = f(x+2)$$



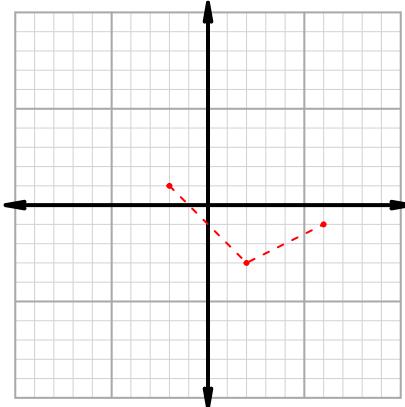
$$y = f(-2 \cdot x)$$



$$y = -2 \cdot f(x)$$



$$y = f(x) - 2$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 13$ and $x_2 = 48$. Express your answer as a reduced fraction.

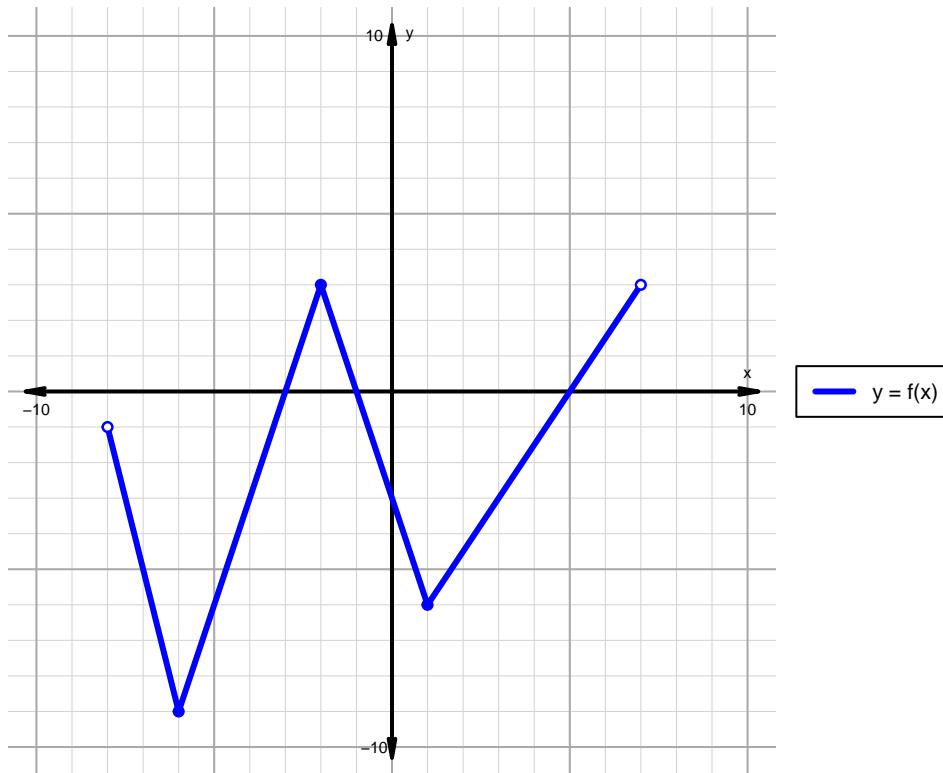
x	$g(x)$
13	26
26	48
46	13
48	46

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 42)

1. The function f is graphed below.



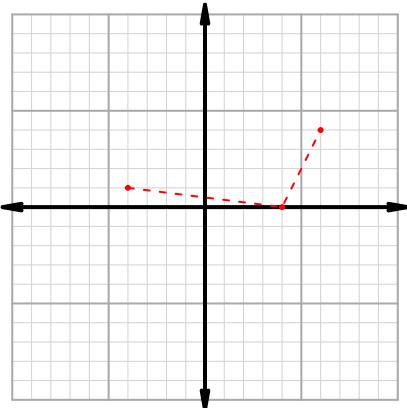
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

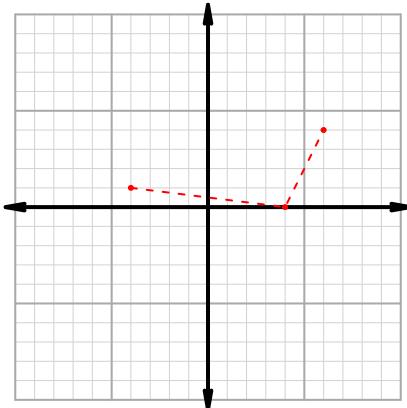
Intervals, Transformations, and Slope Practice (version 42)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

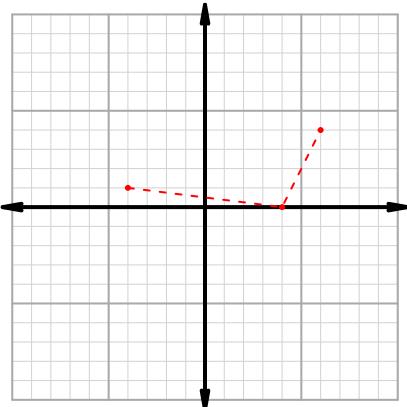
$$y = f(x - 2)$$



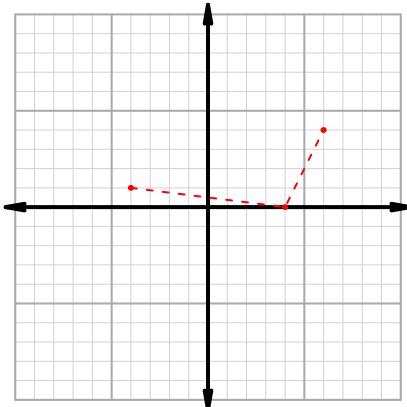
$$y = -2 \cdot f(x)$$



$$y = f(x) - 2$$



$$y = f(-2 \cdot x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 45$ and $x_2 = 63$. Express your answer as a reduced fraction.

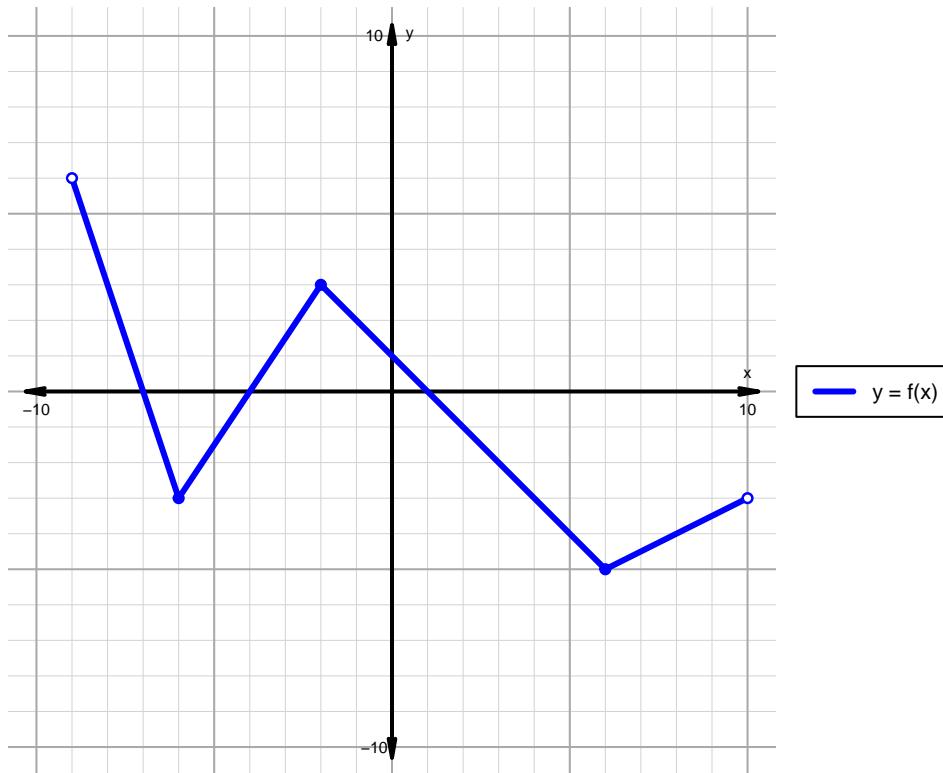
x	$g(x)$
45	76
61	45
63	61
76	63

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 43)

1. The function f is graphed below.



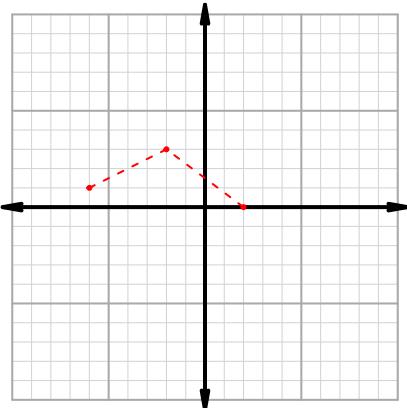
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

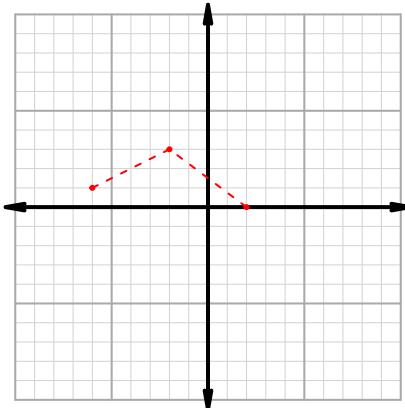
Intervals, Transformations, and Slope Practice (version 43)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

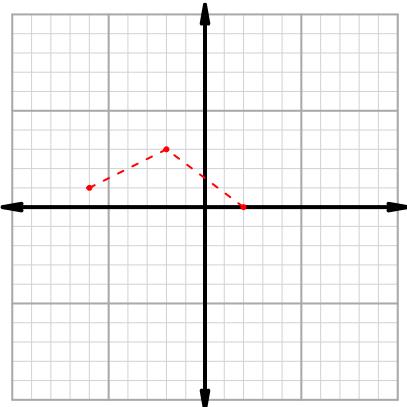
$$y = 2 \cdot f(x)$$



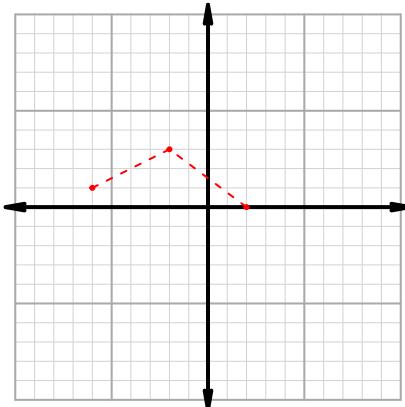
$$y = f(-2 \cdot x)$$



$$y = f(x) - 2$$



$$y = f(x + 2)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 44$ and $x_2 = 56$. Express your answer as a reduced fraction.

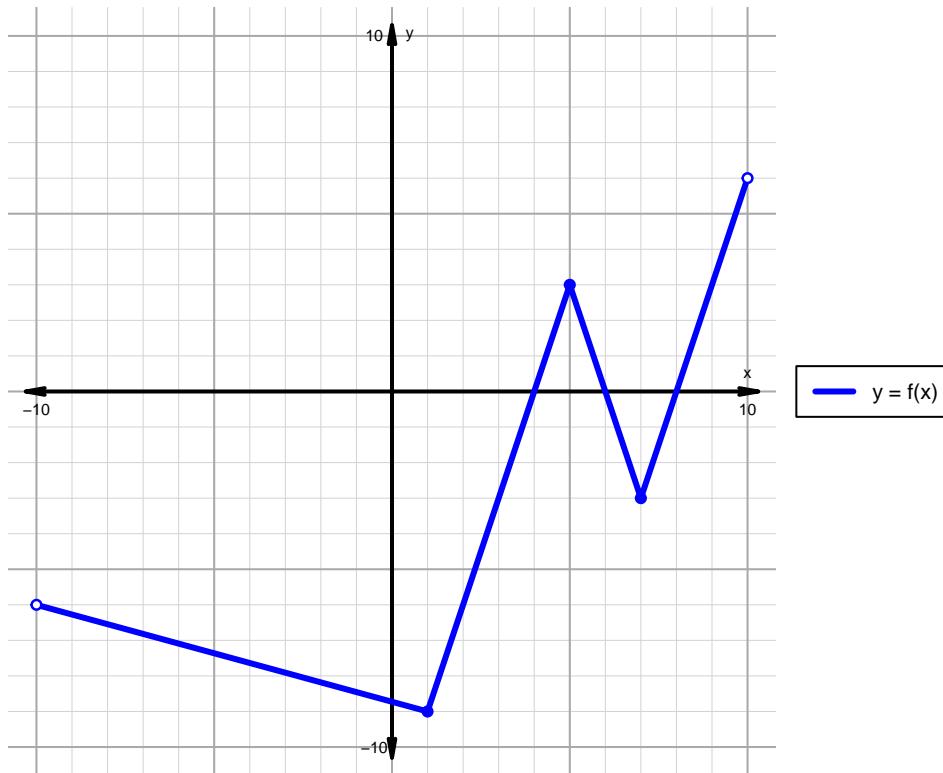
x	$g(x)$
33	56
44	33
56	60
60	44

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 44)

1. The function f is graphed below.



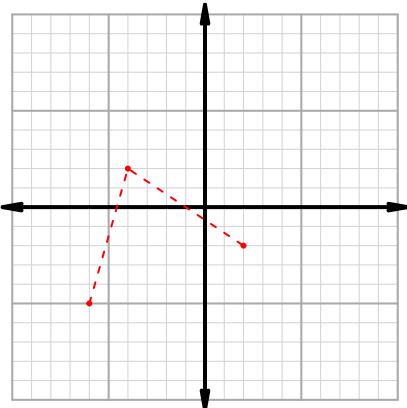
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

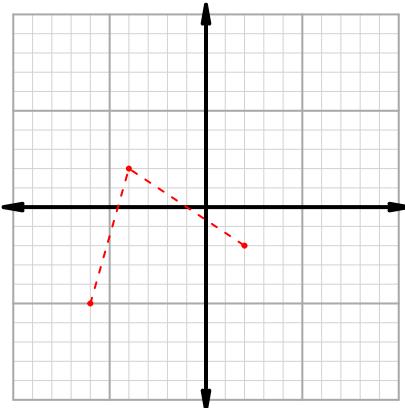
Intervals, Transformations, and Slope Practice (version 44)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

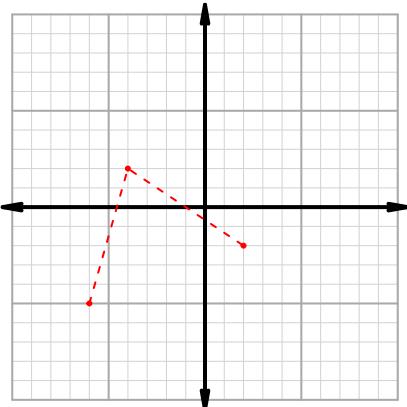
$$y = f(-2 \cdot x)$$



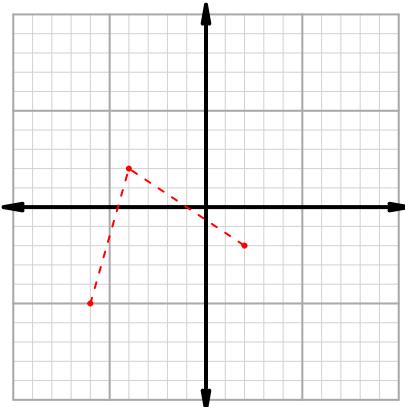
$$y = f(x + 2)$$



$$y = f(x) - 2$$



$$y = -2 \cdot f(x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 57$ and $x_2 = 72$. Express your answer as a reduced fraction.

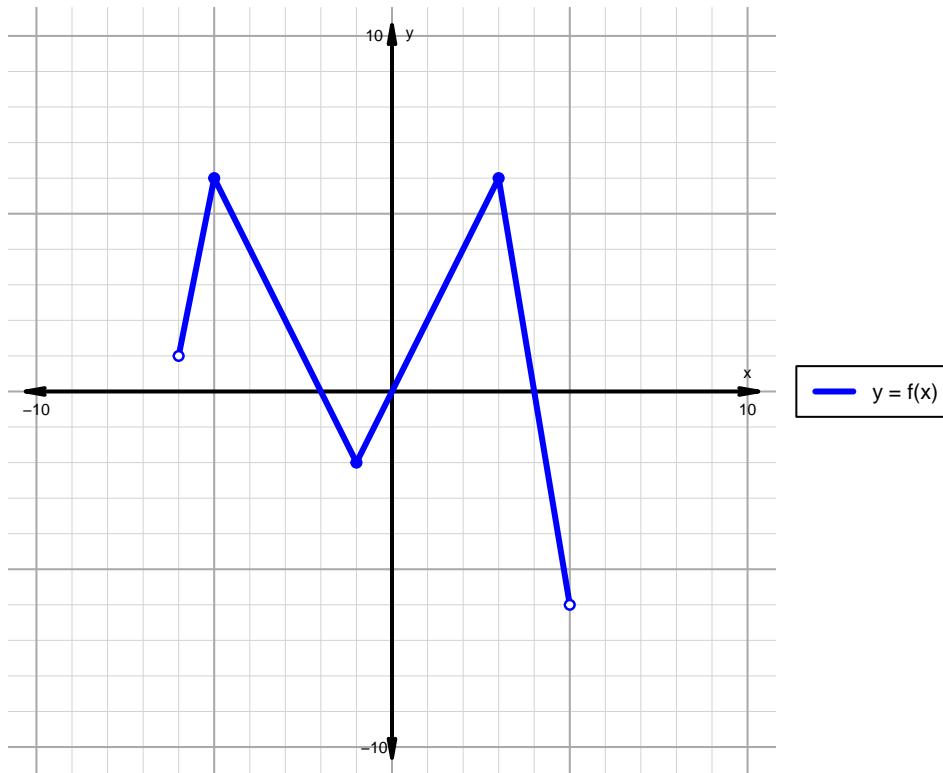
x	$g(x)$
12	57
39	72
57	39
72	12

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 45)

1. The function f is graphed below.



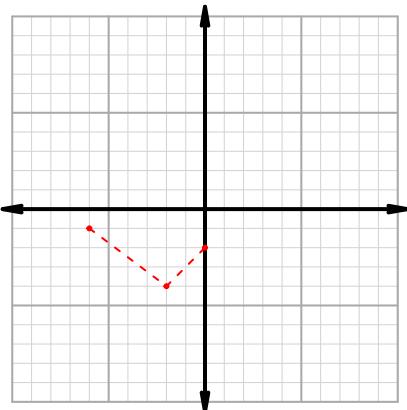
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

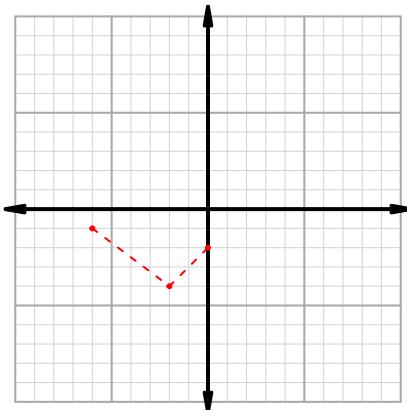
Intervals, Transformations, and Slope Practice (version 45)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

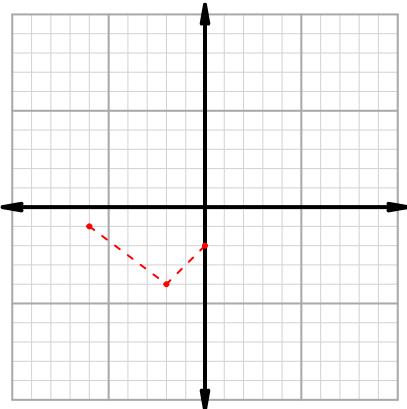
$$y = f(x) + 2$$



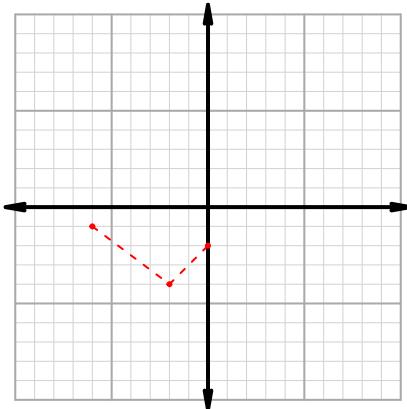
$$y = f(-2 \cdot x)$$



$$y = -2 \cdot f(x)$$



$$y = f(x - 2)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 27$ and $x_2 = 90$. Express your answer as a reduced fraction.

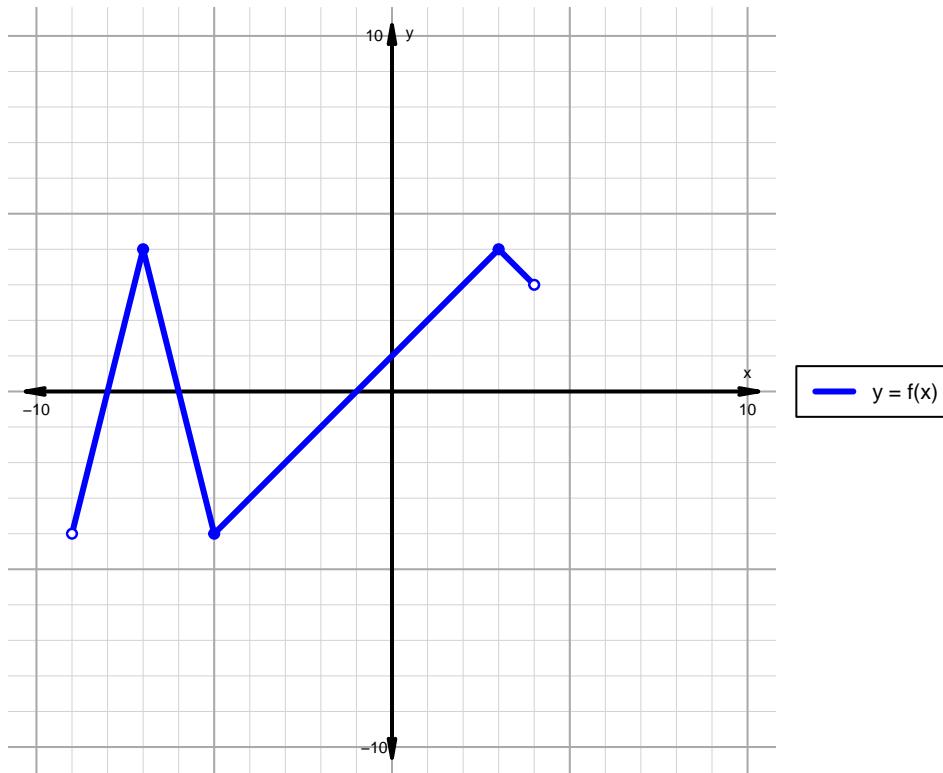
x	$g(x)$
22	90
27	22
90	94
94	27

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 46)

1. The function f is graphed below.



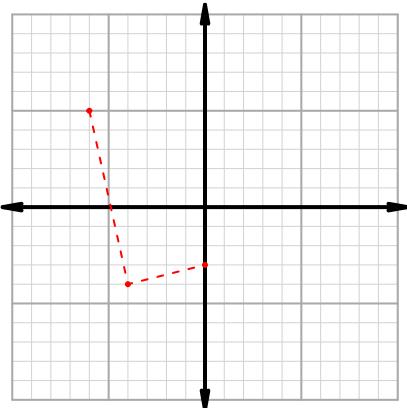
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

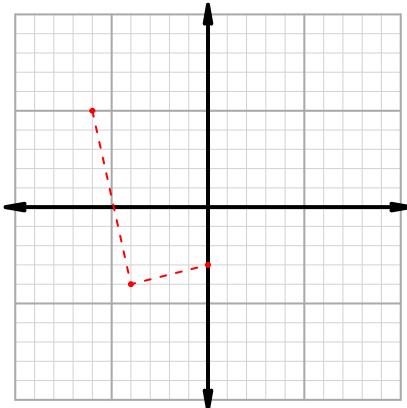
Intervals, Transformations, and Slope Practice (version 46)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

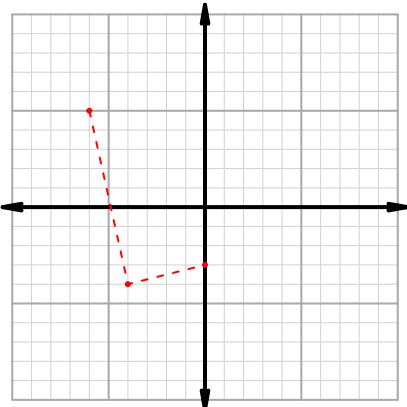
$$y = f(x - 2)$$



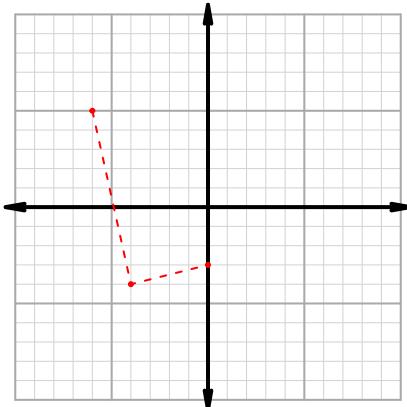
$$y = f(2 \cdot x)$$



$$y = f(x) - 2$$



$$y = -2 \cdot f(x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 25$ and $x_2 = 52$. Express your answer as a reduced fraction.

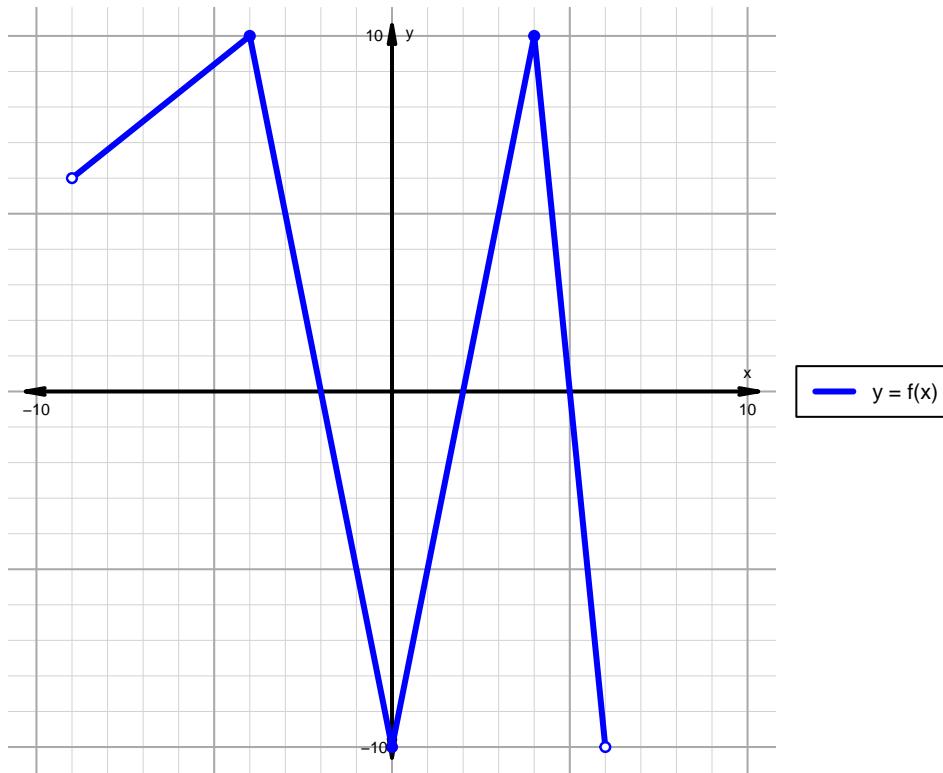
x	$g(x)$
25	66
52	90
66	52
90	25

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 47)

1. The function f is graphed below.



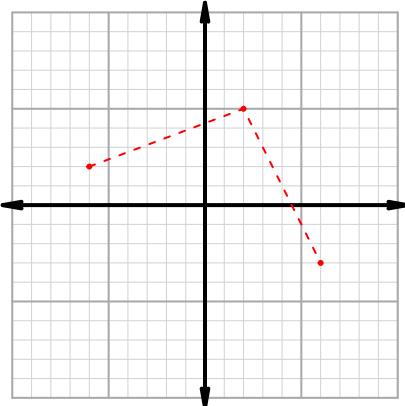
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

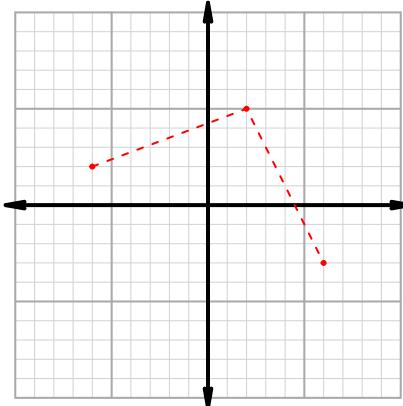
Intervals, Transformations, and Slope Practice (version 47)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

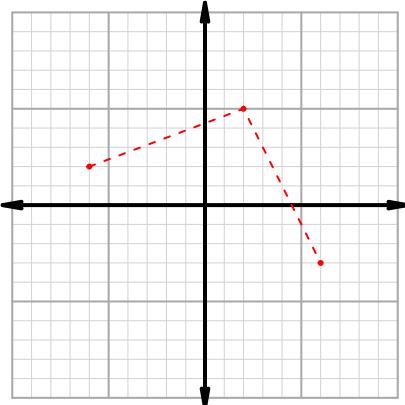
$$y = f(2 \cdot x)$$



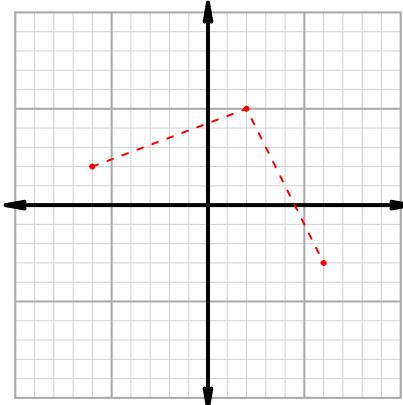
$$y = f(x) - 2$$



$$y = -2 \cdot f(x)$$



$$y = f(x - 2)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 13$ and $x_2 = 27$. Express your answer as a reduced fraction.

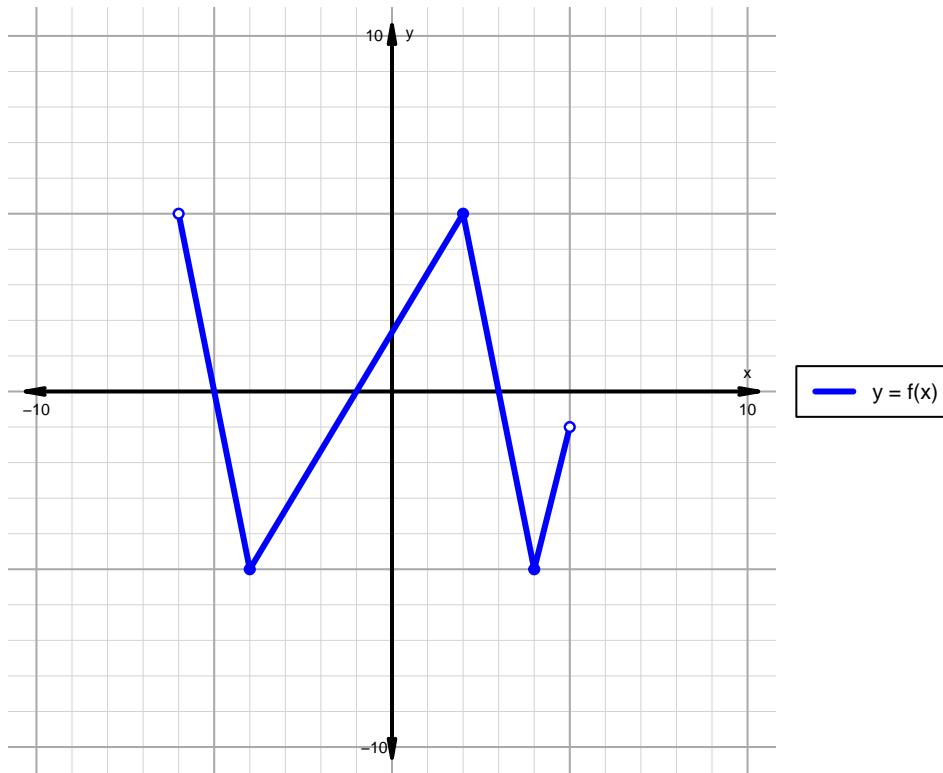
x	$g(x)$
13	97
27	34
34	13
97	27

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 48)

1. The function f is graphed below.



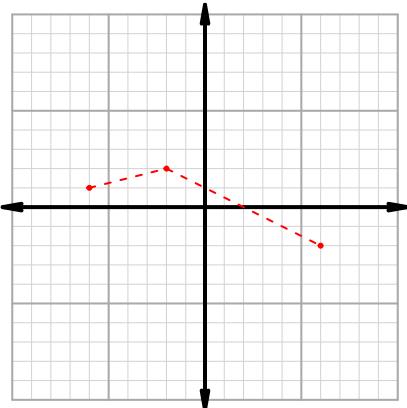
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

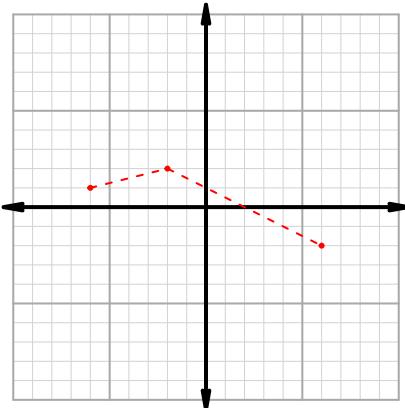
Intervals, Transformations, and Slope Practice (version 48)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

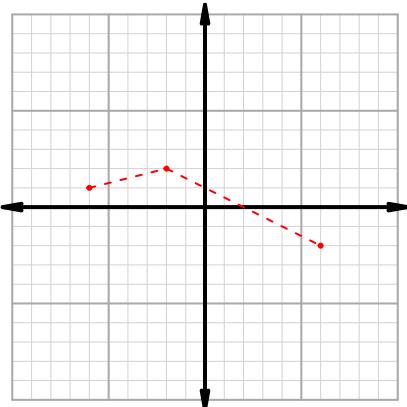
$$y = f(x) + 2$$



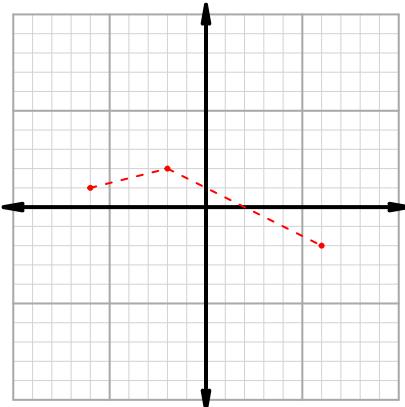
$$y = f(2 \cdot x)$$



$$y = 2 \cdot f(x)$$



$$y = f(x + 2)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 69$ and $x_2 = 83$. Express your answer as a reduced fraction.

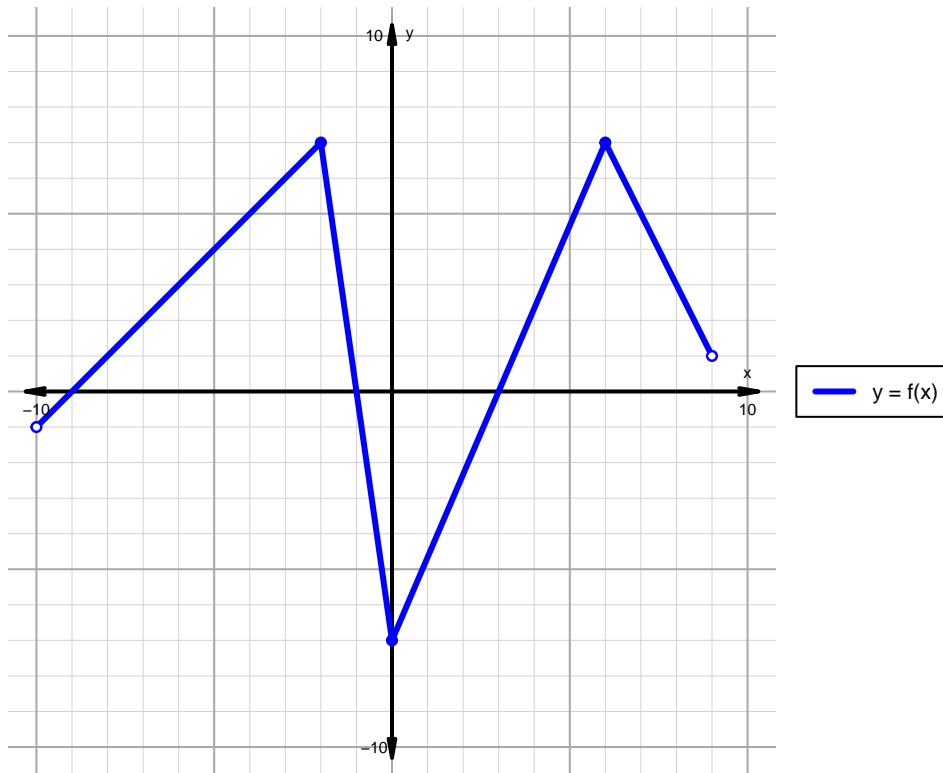
x	$g(x)$
69	87
80	69
83	80
87	83

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 49)

1. The function f is graphed below.



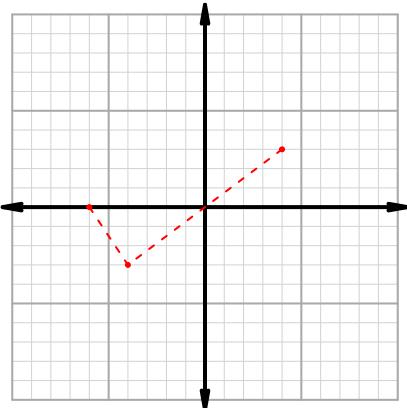
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

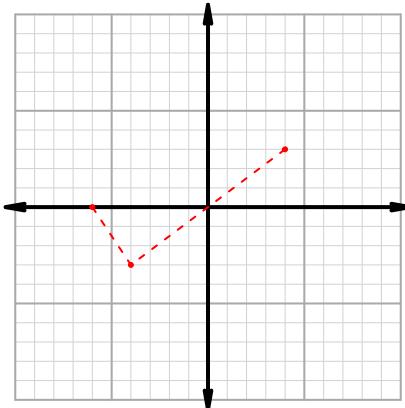
Intervals, Transformations, and Slope Practice (version 49)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

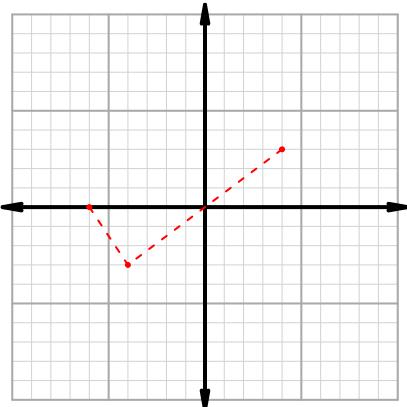
$$y = f(x - 2)$$



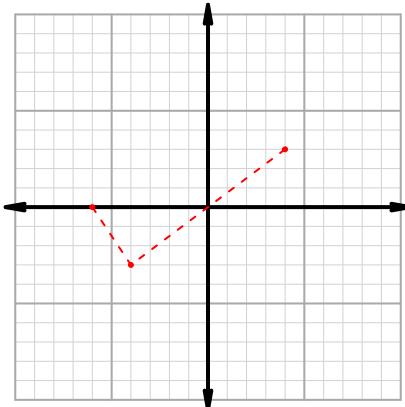
$$y = 2 \cdot f(x)$$



$$y = f(x) + 2$$



$$y = f(-2 \cdot x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 44$ and $x_2 = 69$. Express your answer as a reduced fraction.

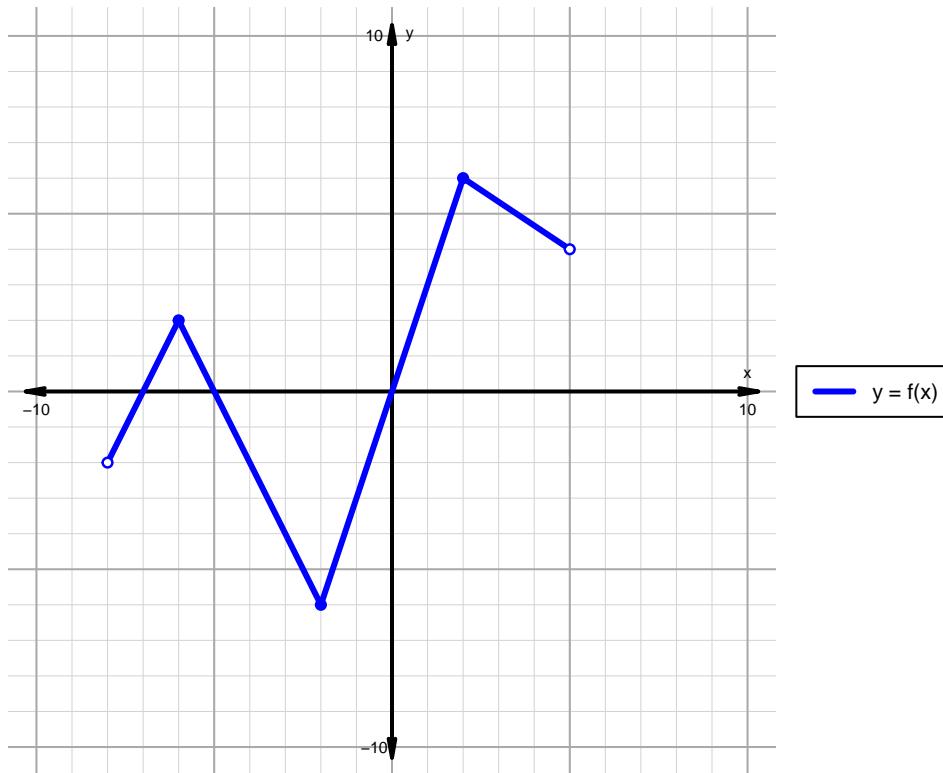
x	$g(x)$
15	44
44	55
55	69
69	15

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 50)

1. The function f is graphed below.



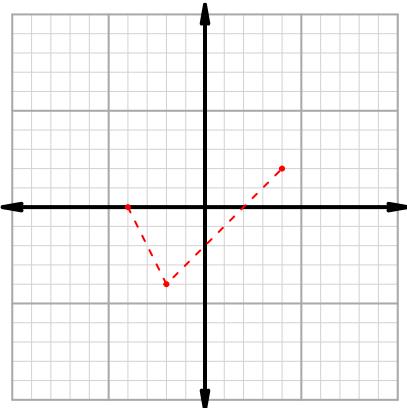
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

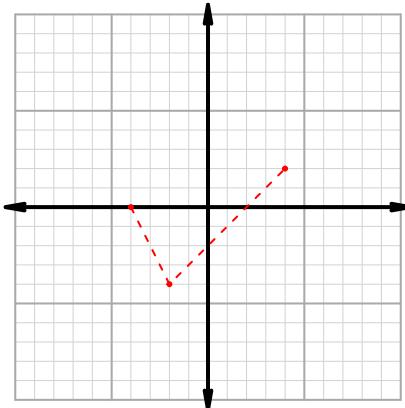
Intervals, Transformations, and Slope Practice (version 50)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

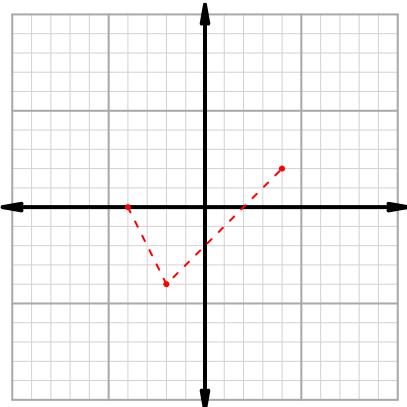
$$y = f(x - 2)$$



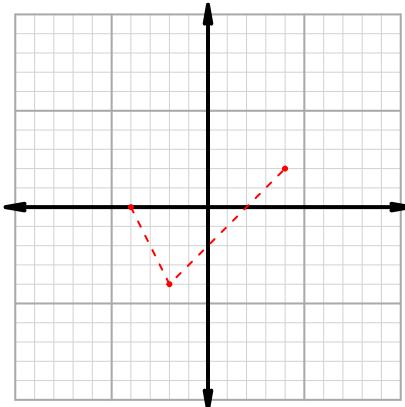
$$y = 2 \cdot f(x)$$



$$y = f(2 \cdot x)$$



$$y = f(x) - 2$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 64$ and $x_2 = 85$. Express your answer as a reduced fraction.

x	$g(x)$
8	64
23	85
64	23
85	8